



ENGINEERED
PERFORMANCE STANDARDS
for
Real Property Maintenance Activities

Electric, Electronic Handbook

ARMY TB 420-6
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DEPARTMENTS OF THE ARMY,
THE NAVY AND THE AIR FORCE



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FOREWORD

This handbook provides guidance to Planners-Estimators in projecting labor hour requirements for workers to perform typical facilities maintenance tasks. Proper use of the data in this handbook will help provide more realistic, consistent, and timely labor hour estimates. These estimates provide bench marks that enable managers to evaluate and control actions based on improvement. More effective response and support at minimum cost can, in turn, be realized.

Comments and suggestions regarding the handbook are invited and should be sent to:

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NAVFAC Industrial Engineering Center (NIEC)
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or AUTOVON 565-2297

To facilitate forwarding of comments, addressed feedback forms are included in the back of this handbook.

For Air Force installations, send copies of comments and/or suggestions to:

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Tyndall Air Force Base, FL 32403-6001

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TABLE OF CONTENTS

10	APPLI ANCES/HEATERS/AI R CONDI TI ONERS	3
	Air Condi ti oners/Dryers/Ranges	3
	Heaters	3
	Thermostats	3
20	COMMUNI CATI ONS	5
	Al arm Systems - Fi re/Securi ty/Smoke Al arms	5
	Ampl i fi ers	5
	Antennas	5
	Intercoms/Di ctaphones/Speakers	5
	Movi e Projectors/Turntabl es/Tape Recorders	5
	Telephone Systems	5
30	ELECTRI CAL EQUI PMENT	7
	Cl ocks	7
	El ectroni c Equi pment	
	Check/Repai r El ectroni c Equi pment	7
	Fans	
	Ceil ing Fan	7
	Exhaust Fan	7
	Generators	7
	Motors	7
40	ELECTRI CAL MATERI ALS - CABLE	9
	Cabl e	
	Instal l Cabl e	9
	Di sconnect/Remove	9
	Load/Unl oad Cabl e	9
	Straigh t Spl ice	11
50	ELECTRI CAL MATERI ALS - CONDUI T/RACEWAYS	13
	Condui t	
	El ectri cal Metal l ic Tubi ng (EMT)	13
	Fl exi bl e Condui t	13
	PVC Condui t	13
	Ri gi d Condui t	15
	Wi reway	15
	Drop Cords	17
	Ducts	
	Fl oor	17
	Trol l ey	17
	Rack (Kendorf)	17
	Fi tti ngs	
	Seal Off Fi tti ngs	17
	Juncti on Box	17

60 ELECTRICAL MATERIALS - PANEL BOARDS	
Panel boards	
Circuit Breaker Type	19
Fusible Type	20
Panel Board Circuits	
Circuit Breaker Type	19
Fusible Switch Block Type	20
70 ELECTRICAL MATERIALS - WIRES AND RECEPTACLES	
Wire	
Connect	23
Cut Access Hole	25
Pull Wire through Conduit	25
Remove From Conduit (between boxes)	25
Straight Splice	23
Y-Splice	23
Receptacles	
Duplex Receptacles	25
Explosion Proof Double Pole Receptacles	25
Extension Box for Receptacle	25
Switches	
Safety Switch (see switchgear)	
Single Pole Switch	25
80 LIGHTING - OUTDOOR	
Airfield	
VASI Lights	27
Emergency	27
Flood	27
Street Lighting	
Incandescent and Sodium	27
Fixture Supports	27
90 LIGHTING - FLUORESCENT	
Fixture Components	29
Recessed (Troffer) Fixture	30
Stem Mounted Fixtures	30
Surface Mounted fixtures	31
100 LIGHTING - INCANDESCENT	
Surface Mounted Fixtures	33
Stem Mounted Fixtures	33
110 SERVICE/DISTRIBUTION - MANHOLES	
Test for Toxic Fumes	35
Pump out Flooded Manhole	35
120 SERVICE/DISTRIBUTION - GROUNDS AND TEMPORARY SERVICE	
Grounding Rods	37
Grounding Systems	37
Temporary Electrical Service (install and later remove)	37

130 SERVICE/DISTRIBUTION - LINE WORK	
Climb Pole	39
Cut Pole	39
Install Pole	39
Enter Storage Yard/Load Pole	39
Remove Pole	39
Straighten Pole	39
High Voltage	
Pins & Insulators	41
Jumper Confections and Jumper Wires	41
Lightning Arrestors/Fused Circuits	41
Low Voltage Pin Bracket/Communication Wire	41
Primary Switches	41
Cartridge Fuses	41
Clevelis Insulators	41
140 SERVICE/DISTRIBUTION - POWER LINES	
Conductors	43
3 Spool Secondary Rack	45
5 Spool Secondary Rack	45
150 SERVICE/DISTRIBUTION - POLES	
Free Standing Poles	47
Non-free Standing Poles	51
Anchor Guys	51
Pole or Arm Guys	51
Push Brace	51
Stub Pole	51
160 SERVICE/DISTRIBUTION - SWITCH GEAR	
Switchgear (circuit breaker and safety switch)	
Explosion-Proof and Water or Dust-Tight (circuit breaker)	53
Industrial Line (circuit breaker)	58
Fusible (safety switch)	54
Non-Fusible (safety switch)	57
170 SERVICE/DISTRIBUTION - TRANSFORMERS	
3 to 15 KVA transformer	61
.	61
Preventive Maintenance Inspection	61
180 SERVICE/DISTRIBUTION - SUBSTATIONS	63

1990 ELECTRICAL HANDBOOK SYNOPSIS OF CHANGES

NEW TASKS: (46)

- GT-86 Install 1/2" to 2" EMT conduit on wood or concrete surface in restricted area such as attic, crawlspace or behind wall - per up to ten foot section.
- GT-88 Install junction switch or outlet box on wood or concrete surface in restricted area such as attic, crawl space or behind wall.
- GT-101 Install 10 foot section of up to 1" diameter flexible metallic conduit to wood or concrete in restricted area such as attic, crawl space or behind wall.
- GT-126 Install up to ten foot section of 1/2" to 2" rigid conduit on wood or concrete surface in restricted area such as attic, crawl space or behind wall.
- GT-612 Install electrical component (light, fan, etc.) in suspended ceiling. Does not include assembly of component.
- GT-613 Assemble and install ceiling fan in suspended ceiling.
- GT-614 Cut access for wire through wooden partition with hole saw mounted in portable power drill.
- GT-615 Install smoke detector in ceiling' (does not include wiring installation or ladder time).
- GT-616 Install recessed fluorescent light (Troffer) fixtures in suspended ceiling - two fixtures per job.
- GT-617 Install and later remove temporary electrical service - up to 100 AMP - during maintenance operations.
- GT-618 Install and later remove temporary electrical service - over 100 AMP - during maintenance operations.
- GT-619 Install small exhaust fan, up to 1/10 HP, in kitchen or restroom wall. Includes conduit, switch and receptacle. Stepladder used.
- GT-620 Open hole (knockout) in electrical component box with hydraulic punch.
- GT-621 Drill for and install Kendorf rack for overhead cable or wireway run - per rack.
- GT-622 Test manhole for accumulation of toxic gases with an atmospheric test instrument.
- GT-623 Test manhole for accumulation of toxic gases with calorimetric indicating gel tube.

SYNOPSIS CONTINUED

- GT-624 Inject carbon dioxide into manhole to reduce possibility of explosion.
- GT-625 Ventilate manhole with portable gasoline driven blower - run time not included.
- GT-626 Ventilate manhole with portable electric driven blower - run time not included.
- GT-627 Pump water from manhole with portable gasoline driven pump - run time not included.
- GT-628 Pump water from manhole with-portable electric driven pump - run time not included.
- GT-629 Pump water from manhole with permanently installed electric driven pump - run time not included.
- GT-630 Remove outlet and install box extension and plaster ring to existing box to bring outlet out level with new wall.
- GT-631 Replace single-phase, 37 1/2 to 50 KVA transformer mounted on pole.
- GT-632 Install new single-phase, 37 1/2 to 50 KVA transformer to pole including drilling holes and mounting hardware.
- GT-633 Install one straight section of PVC conduit (EB Duct) up to six inch (6") diameter in trench.
- GT-634 Install one curved section of PVC conduit (EB Duct) up to six diameter in trench - includes heating conduit in cooker and bend to pattern.
- GT-635 Cut up to six inch (6") diameter PVC conduit (EB Duct) to length for installation - includes measure, mark and cut to size with power saw.
- GT-636 Adjust VASI (Visual Approach Slope Indicator) lights on airfield - includes calibration of aiming bar
- GT-637 Calibrate VASI (Visual Approach Slope Indicator) aiming bar to be used in alignment of VASI lights on airfield.
- GT-638 Install section of conduit or raceway on overhead suspended (Kendorf) racks. Work stand used.
- GT-639 Install phase protection on electric motor.
- GT-640 Open hole (knockout) in electrical component box with punch and puller turned by wrench.

SYNOPSIS CONTINUED

- GT-641 Install direct burial cable up to 1/0 in trench.
- GT-642 Install up to 1/0 cable through conduit in trench.
- GT-643 Install up to 1" diameter flex ENT conduit to wood surface.
- GT-644 Replace exterior light fixture on vertical wall.
- GT-645 Install battery powered smoke detector to plaster ceiling.
- GT-646 Install up to 1" diameter flex ENT conduit to concrete.
- GT-647 Install up to 1" diameter flex ENT conduit through rafters.
- GT-648 Install 480Y/277 volt panel board to wood surface.
- GT-649 Install 480Y/277 volt panel board to concrete surface.
- GT-650 Install 480Y/277 volt panel board to steel column.
- GT-651 Replace bus bars and barrier boards in substation.
- GT-652 Pull large cable with motorized cable puller.
- GT-653 Operational Test of fire alarm system.

REVISIONS: (37)

Conduit: GT-81 through -85, -87, -91, -93, -100, -102, -104, -106, -111, -113, -120, -125, -127, -129, -131, -133 through -136, -138, -140, -142, -147, -154.

Wire: GT-149, -151, -153.

Fittings: GT-166, -168.

Lighting: GT-300 through -303

VALIDATED WITH NEW STUDIES: (2) GT-355, GT-444

DELETIONS: (64)

The following tasks were deleted as being repetitive of other tasks in the book.

Flexible metallic conduit: GT-67, -69, -71, -73, -103, -105, -107, -112, -114, -128, -130, -132, -146, -152.

Wiring: GT-167, -169, -176, -178, -180, -187 through GT-203, -207, -209, -211, -216, -217, -218, -219.

Lighting: GT-288, GT-304 through GT-311.

Line work: GT-321, -322, -325, -326, -329, -330, -333, -334.

Switch gear: GT-540, 543, 549, 552.

SUPPLEMENTAL TASKS

MAY 88

Additional Material Handling (AMH)	One Person per Armload with equipment or by hand (up to 33 1/3 lbs) per 200' R/T		PWA-5	.04	
	Two Persons per Object load per 200' R/T (Size/Wt/Condition too hard for one person)		PWA-5	.11	
Additional Travel Time (ATT)	Additional Work Location (AWL) (per person)		PWA- 1	.07	
	Heavy Equipment Travel (Hrs per Person per R/T) (HET)		Zone 1	PWA-2	0
			Zone 2	PWA-2	0
			Zone 3	PWA-2	0
			Zone 4	PWA-2	.11
			Zone 5	PWA-2	.19
			Zone 6	PWA-2	.27
			Zone 7	PWA-2	.35
			Zone 8	PWA-2	.43
			Zone 9	PWA-2	.55
			Zone 10	PWA-2	.71
			Zone 11	PWA-2	.87
			Zone 12	PWA-2	1.03
			Zone 13	PWA-2	1.19
			Zone 14	PWA-2	1.35
			Zone 15	PWA-2	+1.51
Ladder Time (Position & Climb)	To Reach Object (per move)		Up to 8'	PWP-9	.0393
			From 9' to 11'	PWP-9	.0416
			From 12' to 15'	PWP-9	.0727
			From 16' to 23'	PWP-9	.1591
			Over 23'	PWP-9	.1621
	Continuous Lateral Movement (per LIN FT)		Up to 8'	PWP-9	.0037
			From 9' to 11'	PWP-9	.0044
			From 12' to 15'	PWP-9	.0062
			From 16' to 23'	PWP-9	.0164
			Over 23'	PWP-9	.0230
	Wall Painting/Covering (per SQ FT)		Walls up to 15'	PWP-9	.0004
			Walls over 15'	PWP-9	.0021
	Ceiling Painting/Covering (per SQ FT)		Ceilings up to 11'	PWP-9	.0027
			Ceilings over 11'	PWP-9	.0038
Scaffolding	Pipe or Portable Type	Assemble OR Disassemble (per Section up to 5 sections high)	P-701.1	.3	
		AMH: Pipe-type Components (per Section per 200' R/T)	PWA-5	.3	
	Power-Type	Raise AND Lower (per USE)	BT-175	.63	
Paint	Additional Job Prop	Traffic Striping (per day)	PWP-27	1.1	

SUMMARY OF GENERAL DATA

AUG 89

CRAFTS		JOB PREP.	PERCENT CRAFT ALLOW.	
			ONE PERSON	MULTI. PERSON
BOILER WORK		. 4	23	33
CARPENTRY	GENERAL	. 3	15	20
	ROOFING	. 6	2 0	2 5
COOLING/VENTILATING/REFRIGERATION		. 3	15	18
ELECTRICAL & ELECTRONIC		. 3	16	20
HAZARDOUS WORK: ADDED TO JOB PREP. TIME PER CRAFT		. 2	-	-
HEATING		. 3	1 7	2 1
JANITORIAL		. 2	11	13
MACHINE SHOP		. 3	23	24
MACHINE REPAIR		. 4	28	36
MASONRY	GENERAL	. 4	15	20
	W/ PURCHASED CONCRETE	. 4	19	2 2
MOVING & RIGGING		. 3	2 8	4 0
PAINT	GENERAL	. 2	16	1 7
	SPRAY	. 2	1 7	1 9
PEST CONTROL		. 2	14	1 7
PIPEFITTING	INTERIOR	. 3	1 5	2 0
	EXTERIOR	. 3	1 8	2 5
PLUMBING	INTERIOR	. 3	1 7	2 0
	EXTERIOR	. 3	1 5	2 0
ROADS & GROUNDS	GENERAL	. 3	1 6	2 0
	LABORERS	. 3	1 5	2 0
SHEETMETAL		. 3	1 5	2 0
STRUCTURAL IRON & WELDING	SHOP	. 3	1 7	2 0
	FIELD	. 6	1 7	2 2
TRACKAGE		. 4	-	2 2
WHARFBUILDING		. 5	2 4	3 2

CRAFT TIME ADJUSTMENT APPLICATION PROCEDURE

Craft Time Adjustment (CTA) can be used to modify EPS task times in this book. Use CTA only when work content comparison shows the planned job to require more or less work than the listed task.

a. The CTA Chart shows the amount that the calculated EPS craft time can be adjusted up or down (+/-) after occurrences have been multiplied by the Task-Time-Standard. The CTA HOURS are based on the differences between EPS Group Times (see DESKGUIDE Table 2.1).

CRAFT TIME ADJUSTMENT (CTA) CHART			
JPCS Column #9c			Column #9c
EPS CRAFT TIME	CTA HOURS		EPS CRAFT TIME CTA HOURS
FROM	NOT INCLUDING	(+/-)	FROM NOT INCLUDING (+/-)
0.0	0.2	0.1	5.2 9.0 2.0
0.2	0.4	0.3	9.0 11:0 2.5
0.4	0.8	0.5	11.0 14.0 3.5
0.8	1.4	0.7	14.0 22.0 4.0
1.4	2.2	1.1	22.0 26.0 5.0
2.2	3.6	1.5	26.0 32.0 7.0
3.6	5.2	1.6	32.0 40.0 9.0
			40.0 UP 10.0

b. CTA Application Steps

- (1) Select the proper EPS task by reading and understanding the EPS task descriptions and the Task-Time-Standard details in the back of the hard copy EPS Handbook.
- (2) Use the normal procedure of writing the selected EPS task reference, description, unit hours, occurrence and calculated EPS CRAFT TIME. (Write "WCC" below the EPS reference (Col #7) if Work Content Comparison is used.)
- (3) Decide if CTA is needed, based on P-E craft knowledge. If so, look up the EPS CRAFT TIME range and determine the CTA HOURS from the CTA Chart.

On a separate JPCS line, just below the related EPS task:

- (4) Write "CTA" in the Reference column (#7).
- (5) Write a short explanation for the CTA in the Description column (#8). Compare the work content to the EPS task.
- (6) Leave the Unit Hours column (#9a) blank.
- (7) Show a "+" or "-" sign in the Occurrence column (#9b). (When using a "-", remember to subtract while totaling.)
- (8) Write the CTA time in the Craft Time column (#9c). (Only use one CTA occurrence per EPS task.)

For conditions needing adjustment time exceeding CTA hours:

- (9) Write a non-EPS estimate or select another EPS task.

INTRODUCTION

This revision of the Electrical Handbook is presented in a new format to simplify locating and understanding each task. The synopsis of changes on page vii lists the 32 new tasks developed, 32 major revisions and two additional validations. Sixty-two tasks were deleted as repetitious. Ladder or workstand time was deleted from many tasks and should be added as needed from the supplemental tasks on page x.

Explanation and Scope of Standards. The task descriptions are brief and give a quick overview of the work content. The index can be used to find additional tasks. The page facing the task listings explains the tasks and gives detailed descriptions of the task applications and limitations. Also on this page is a typical example showing the task as it would appear on a Job Phase Calculation Sheet (JPCS).

Task Time Details. The Task Time Details no longer include times for each detail line. These reformatted details are listed numerically in the back of this handbook. They are provided for your use in researching the contents of the task.

General Information. All task times are shown in labor hours. These labor hours do not include time for staging required materials at the job site. Activities such as material handling time, travel time and job preparation time are covered in the Planner-Estimator's Deskguide. Engineered Performance Standards (EPS) should be applied by personnel who have attended an EPS training course. New users of EPS should attend a formal initial EPS training course as soon as possible. In the interim new users should be assisted and their planning and estimating work reviewed by personnel formally trained and experienced in using EPS.

I. TASK TIME SUMMARY

APPLIANCES

EXPLANATION AND SCOPE OF STANDARDS

To install a new appliance or air conditioner unit, the electrician will secure the power supply and remove the cover plate for the service outlet box and the cover for access on the appliance. Time is allowed to remove knockout holes in the box and the unit for the cable. The cable is cut, formed and connected in the outlet box and the appliance. Time is allowed to level the unit and to check its operation.

To remove an appliance circuit, power is secured and the cover plates are removed. Connector screws are loosened and the cable removed.

6. JOB PHASE DESCRIPTION Install 220V clothes dryer in B.O.Q. laundry room #118. Cable to run to supply box in adjacent utility room through partition.

REFERENCE 7	TASK DESCRIPTION 8	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME c.	
GT-33	Install and connect 220V dryer	.8749	1	.88	
GT-614	Cut access through partition for cable	.0503	1	.05	
PWA-5	Handling for moving dryer	.11	1	.11	
		TOTALS (Craft & ESTIMATED TIME)		1.04	

10 CHAPTER	APPLIANCES	REVISION	3 PAGE
Ref .	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>220V AIR CONDITIONER, DRYER, RANGE, HEATER, THERMOSTAT</u>		
	<u>Install Appliance</u>		
GT-031	Using 3 conductor cable with ground wire and connected plug	. 3563	JOB
GT-032	To service outlet using 3 conductor nonmetallic cable with ground wire fixed at both ends	. 4380	JOB
GT-033	Using 6' length of flexible metallic conduit and 3 "pulled in" conductors connected at both ends	. 8704	JOB
GT-030	<u>Replace Appliance</u>	. 4218	JOB
	<u>Install or Remove Appliance Circuit</u>		
GT-036	Consisting of 3 each #8 or smaller conductors in 6' length of flexible conduit	. 6590	JOB
GT-037	Consisting of 3 each #2/0 or smaller conductors in 6' length of flexible conduit	. 7065	JOB
GT-029	Remove & replace appliance circuit consisting of 3 conductor cable with ground wire	. 3832	JOB
	<u>Overhead Heaters</u>		
GT-034	Disconnect	. 1734	JOB
GT-035	Connect	. 6720	JOB
	<u>Thermostats</u>		
GT-028	Install to concrete	. 3783	JOB
GT-027	Install to wood or plaster	. 2975	JOB
GT-026	Replace	. 3855	JOB

20 CHAPTER	COMMUNICATIONS	REVISION	5 PAGE
REP.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>ALARM SYSTEMS</u>		
GT-220	Fire alarm (install wires on pole)	.8011 .1984	JOB POLE
GT-653	Fire alarm operation test	.0660 .0538	TEST ZONE
GT-515	Smoke Detector (install)	.2475	ALARM
	<u>AMPLIFIERS</u>		
GT-002	Check and repair 10 watt amplifier	2.2263	JOB
GT-003	Check and repair 50 watt amplifier	2.8127	JOB
GT-001	Check and repair paging amplifier	1.1607	JOB
GT-019	Install relay and press to talk button	.9355	JOB
	<u>ANTENNAS</u>		
GT-004	Remove/install mobile antenna rod	.1203	JOB
GT-005	Remove/install mobile antenna mounting bases	.3813	JOB
GT-006	<u>DICTAPHONES</u> Check/repair	.2000	JOB
GT-012	<u>INTERCOMS</u> Check/repair	1.1243	JOB
GT-013	<u>MOVIE PROJECTORS</u> Check/repair	1.4281	JOB
GT-011	<u>RECORD TURNTABLES</u> Check/repair	.6233	JOB
GT-007	<u>TAPE RECORDERS</u> Check/repair	1.0400	JOB
	<u>SPEAKERS</u>		
GT-017	Check/repair line transformer	.3775	JOB
GT-018	Install to wood surface (2 each)	.8088	JOB
	<u>TELEPHONE SYSTEMS</u>		
GT-039	Install phone box to floor duct	.0345 .0434	JOB BOX
GT-040	Remove phone box from floor duct	.1089 .0238	JOB BOX
GT-041	Remove phone box from one location and install in another approximately 8' away	.2558 .0583	JOB BOX
	<u>Ship to Shore Telephone</u>		
GT-008	Install portable ship-to-shore telephone on ship quarterdeck and plug in at pier outlet	.2406	JOB
GT-009	Remove portable ship-to-shore telephone from ship quarterdeck and disconnect at outlet on pier	.1638	JOB

ELECTRICAL EQUIPMENT

EXPLANATION AND SCOPE OF STANDARDS

OVERHAUL MOTOR

These tasks include dismantle, clean, inspect, check components, replace bearings and brushes, reassemble and test electric motors. Repair work is limited to the replacement of bearings and brushes and component cleaning. Time is included for removing and installing motor and for painting.

Motors are dismantled on a work bench and components are cleaned with solvent and compressed air. Rotors and commutators are further cleaned in a lathe. New bearings are installed by hydraulic press. Motors are reassembled and tested. Two men are required to lift the 7 1/2 to 10 HP motors to and from the work bench.

5. JOB PHASE DESCRIPTION Overhaul 5 HP split phase electric motor from sump pump unit.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME c.	
7	s				
GT-24	Minor overhaul of 1/4 to 5 HP motor	1.4758	1	1.48	
		TOTALS (Craft & Estimated Time)		1.48	

30 CHAPTER	ELECTRICAL EQUIPMENT	REVISION	7 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>CLOCKS</u>		
GT-022	IBM time clock (model 8500-5 or 8500-9) disconnect, remove, disassemble, inspect, clean, reassemble, adjust, reinstall and connect	2.2210	JOB
GT-021	Stromberg time clock (model 14 or 15) disconnect, remove, disassemble, inspect, clean, reassemble, adjust, reinstall and connect	.5443	JOB
	<u>ELECTRONIC EQUIPMENT</u>		
GT-015	Check and repair equipment with 8 tubes	2.0907	JOB
GT-014	Check and repair equipment with 16 tubes	3.9071	JOB
GT-010	Octal Tube Socket (remove and install)	.3522	JOB
GT-016	Make minor repairs to electronic equipment	.3144	JOB
	<u>FANS</u>		
GT-612	Install ceiling fan in suspended ceiling	.7320	UNIT
GT-613	Assemble and install fan to suspended ceiling	1.1557	FAN
GT-619	Exhaust Fan (install up to 1/10 hp)	1.1019	FAN
GT-500	<u>GENERATORS</u> Preventive Maintenance	.1063	JOB
	<u>MOTORS</u> disconnect/overhaul/connect		
GT-023	1/4 hp Motor	1.0740	JOB
GT-024	1/4 - 5 hp Motor	1.4714	JOB
GT-025	Induction Motor 3/4 - 10 hp	2.6944	JOB
GT-639	Install phase protection on motor	.6585	JOB

40 CHAPTER	ELECTRICAL MATERIALS - CABLE	REVISION	9 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>CABLES - metallic sheathed and non-metallic</u>		
GT-074	Disconnect/remove	.1154 .0558 .0016	JOB BOX FT
GT-029	Disconnect/replace/connect	.3832	JOB
	<u>Install Cable</u>		
GT-072	Through obstructed partition	.0228 .6342 .0057	JOB BOX FT
GT-070	Through unobstructed partition	.0228 .5501 .0014	JOB BOX FT
GT-066	To exposed wood surface	.0857 .1163 .0012	JOB BOX FT
GT-068	To framing	.1298 .1163 .0023	JOB BOX FT
	<u>Load/Unload Cable</u>		
GT-315	6awg-1awg less than 100 LBS	.3954	JOB
GT-317	6awg-1awg over 100 LBS	1.3676	JOB
GT-318	1/0-4/0 new reel over 100 LBS	1.9278	JOB
GT-316	1/0-4/0 partially used reel over 100 LBS	1.1448	JOB
GT-641	Install direct burial cable up to 1/0 in trench	.0338 .0593 .0007	JOB CABLE FOOT
GT-642	Install up to 1/0 cable through conduit in trench	.0338 .0593 .0512	JOB CABLE SECTION

40 COMPUTER	ELECTRICAL MATERIALS - CABLE	REVISION	11 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>CABLES</u>		
	<u>Straight Splice Single Conductor</u>		
GT-056	One lead sheathed 4/0-450mcm	3.4649	JOB
GT-057	Three (3) lead sheathed 4/0-450mcm	8.3946	JOB
GT-051	Pol yethyl ene jacket/or equal 8awg-3/0	1.1867	JOB
GT-052	Pol yethyl ene jacket/or equal 1250-2500mcm	3.2172	JOB
	<u>Straight Splice Three Conductor</u>		
GT-058	Lead sheathed 4/0-450mcm	6.1567	JOB
GT-053	Pol yethyl ene jacket/or equal 8awg-3/0	6.1895	JOB
GT-054	Pol yethyl ene jacket/or equal 4/0-450mcm	7.6660	JOB
GT-055	Pol yethyl ene jacket/or equal 500-1000mcm	9.8930	JOB
	<u>PULL CABLE</u>		
GT-652	With motorized puller	.3852 .0035 .0724	JOB FOOT CABLE

ELECTRICAL MATERIALS - CONDUIT

EXPLANATION AND SCOPE OF STANDARDS

PVC CONDUIT

The trench is laid out, excavated and leveled. Holes are drilled in the manhole, foundation, etc. for clearance for conduit. Supports are placed in the trench approximately every ten feet and as needed for support at bends. PVC sections are placed on supports and positioned to manhole or to join other PVC section. Adhesive is applied by brush to mating surfaces with bell ends or connector sections. PVC is twisted to insure a good bond. Sections are heated and bent to form a curved section. PVC may be cut with handsaw or portable power saw. 1/2" diameter rebar or conduit is driven into the ground and tied off over the conduit to prevent conduit from "floating" as concrete is poured.

6. JOB PHASE DESCRIPTION Run cable in PVC conduit in trench from primary manhole to new 500 KVA transformer - approximately 300' run.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME e.	
7	s				
GT-633	Install 6" dia PVC in trench. Two parallel 300' runs	14074	30	4.22	
	of 20' sections				
GT-635	Cut to length and install two additional sections	16252	4	65	
	of 6" dia PVC				
		TOTALS (Craft & Estimated Time)		4.87	

50 CHAPTER	ELECTRICAL MATERIALS - CONDUIT	REVISION	13 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
<u>CONDUIT/RACEWAYS</u>			
<u>EMT- 1/2" to 1" Diameter</u>			
GT-083	Install to concrete surface	.2398	SECTION
GT-081	Install to wood surface	.1119	SECTION
GT-091	Remove with 8awg or smaller size wire	.2494	SECTION
GT-093	Remove with 6awg-2awg size wire	.2913	SECTION
<u>EMT- 1-1/4" to 2" Diameter</u>			
GT-087	Install to concrete surface	.2613	SECTION
GT-085	Install to wood surface	.1333	SECTION
GT-086	Install 1/2" to 2" EMT on wood or concrete in restricted area	1.3000	SECTION
<u>Flexible Conduit- up to 1"</u>			
GT-102	Install to concrete surface	.1976	JOB
GT-104	Install to existing equipment	.1157	JOB
GT-100	Install to wood surface	1.1504	JOB
GT-101	Install to wood or concrete in restricted area	.2566	SECTION
GT-106	Remove	.1576	SECTION
<u>PVC Conduit- 1/2" to 6"</u>			
GT-633	Install straight section	.1407	SECTION
GT-634	Heat, bend and install curved section	.2818	SECTION
GT-635	Cut to length and install	.1625	SECTION
<u>FLEXIBLE ENT - Up to 1"</u>			
GT-643	Install to wood surface	.0298	SECTION
GT-646	Install to concrete surface	.0650	SECTION
GT-647	Install through rafters	.2284	SECTION
<u>FITTINGS Seal Off Type</u>			
GT-166	Install on 1/2" to 2" conduit	.0290 .1650	JOB FIT
GT-163	Install on 2-1/2" to 3" conduit	.0290 .1892	JOB FIT

EXPLANATION AND SCOPE OF STANDARDS

These tasks apply to the installation or removal of rigid (1/2" - 4") and thinwall conduit (1/2" - 2") and to the installation or removal of junction and switch and outlet boxes to the structure. It covers fittings and connectors used to join conduit to conduit, and conduit to junction and switch boxes, outlets and fixtures. Where conduit is connected to conduit, junction, or switch boxes, all necessary time to make the complete mechanical connection, including time to install the connector for EMT is provided. It covers attachments and fasteners used to secure the boxes to wood and concrete. It applies to all types of couplings, connectors, adapters, elbows, condulets, bushings, locknuts, washers and enlargers, or any equivalent connecting devices. It includes the removal and reinstallation of clip type cover plates on condulets and cover plates on junction switch or outlet boxes, although these operations are not performed until later when wiring is installed. It includes the removal of knockout plugs when necessary.

Bending conduit - Bends are made for the purpose of routing conduit to desired locations, by-passing existing obstructions and offsetting the conduit at junction points to present a neat and workmanshiplike installation. Hickeys are used to bend the smaller sizes of conduit to the desired radius and are designed to do this work without materially changing the inner diameter of the conduit. Conduit from 1/2" to 1" ordinarily is bent by using the hickey as a tool, and a combination of hands and feet to provide leverage. Conduit in 1 1/4" to 4" size requires the use of a hydraulic pipe bender. All conduit is bent cold, without filler or heat. Two types of bending devices are used. The electrical metallic tubing bender has a larger radius shoe than that of the rigid conduit hickey. Both types of benders are used in a like manner to make bends in conduit, the exception being that the hickey is repositioned progressively along the conduit. The electrician determines how the conduit installation is to run, marking layout of outlets and junction boxes as required on wall, ceiling and floors. The electrician determines where 90° bends, 45° bends, saddles and stub offsets are to be made. A starting point for the conduit run is established and conduit is installed in 10 foot lengths or shorter, conduit bends being made progressively as the conduit is installed, measuring, marking and bending only when the particular location for the bend is reached.

6. JOB PHASE DESCRIPTION Install 200' of 2" EMT and 6 boxes. Pull #6 wire through conduit.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR- RENCE b.	CRAFT TIME e.	
7	s				
GT-131	Install 200' 2" rigid conduit to concrete section	.6056	20	12.11	
GT-84	Install 6 junction boxes	.31186	6	1.87	
GT-151	Pull #6 wire	.00575	200	1.15	
		TOTALS (Craft & Estimated Time)		15.13	

50 CHAPTER	ELECTRICAL MATERIALS - CONDUIT	REVISION	15 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
<u>CONDUIT/RACEWAYS</u>			
<u>Rigid Conduit- 1/2" to 1"</u>			
GT-127	Install to concrete surface	.3292	SECTION
GT-125	Install to wood surface	.2623	SECTION
GT-136	Remove with 8awg or smaller size wire	.1631	JOB
GT-138	Remove with 6awg-2awg size wire	.1673	JOB
<u>Rigid Conduit- 1-1/4" to 2"</u>			
Install			
GT-134	hung from concrete surface	.7341	SECTION
GT-133	hung from wood surface	.5419	SECTION
GT-131	to concrete surface	.6056	SECTION
GT-129	to wood surface	.4175	SECTION
GT-126	to wood or concrete in restricted area	.6293	SECTION
GT-136	Remove with 8awg or smaller size wire	.1631	JOB
GT-138	Remove with 6awg-2awg size wire	.1673	JOB
<u>Rigid Conduit- 2-1/2" to 4"</u>			
Install			
GT-154	hung from concrete surface	.9108	SECTION
GT-153	hung from wood surface	.7222	SECTION
GT-147	to concrete surface	.7859	SECTION
GT-135	to wood surface	1.5937	SECTION
GT-140	Remove with 8awg or smaller size wire	.2439	JOB
GT-142	Remove with 6awg-2awg size wire	.2858	JOB
<u>Wireway (Surface Metal Raceway)</u>			
GT-113	Install to concrete surface	.5446	SECTION
GT-111	Install to wood surface	.4446	SECTION
GT-120	Remove	.2217	SECTION

ELECTRICAL MATERIALS - CONDUIT

EXPLANATION AND SCOPE OF STANDARDS

SUSPENDED RACEWAY (KENDORF)

Kendorf racks are installed to ceilings to suspend raceways or conduit overhead.

Holes are drilled in ceiling, anchors are hammered into holes, and support rods are screwed into anchors or a base plate is mounted to ceiling for the rods. Predrilled racks are attached to support rods and secured with nuts and washers. Conduit is then placed on racks in continuous runs and may be clamped to the rack. Work is done from workstand or scaffolding.

6. JOB PHASE DESCRIPTION Install 50' of 1" EMT from ceiling in machine room. Install kendorf supports.

7 REFERENCE	8 TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS 8	OCCUR- RENCE b.	CRAFT TIME c.	
GT-621	Install kendorf for 50' run	.18349	6	1.10	
GT-638	Install 50' 1" EMT	.20822	3	.62	
GT-88	Install box	.37126	1	.37	
EST	Saw conduit to length				0.1
		TOTALS (Craft & Estimated Time)		2.09	0.1

50 CHAPTER	ELECTRICAL MATERIALS - CONDUIT	REVISION	17 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
GT-148 GT-150	<u>Wire - Cut and Pull to Remove</u> Pull #8 or smaller box to box Pull #6 to #2 box to box	.0012 .0054	FOOT FOOT'
	<u>DUCTS</u>		
GT-038	Drop Cords assemble/install overhead	.6648	JOB
GT-094	Floor Duct remove knock out plug	.1068 .0167 .0998	JOB PLUG HOLE
GT-145	Trolley Duct assemble/install	.3316 .5323 .8425	JOB SECTION CORD
	<u>RACK (Kendorf)</u>		
GT-621 GT-638	Install rack Install conduit or raceway to suspended rack	.1835 .2082	RACK SECTION
	<u>JUNCTION WITCH OR OUTLET BOX</u>		
GT-082	Mount on wooden surface and connect	.1649	BOX
GT-084	Mount to concrete surface and connect	.2957	BOX
GT-088	Install in restricted area	.3500	BOX

60 CHAPTER	ELECTRICAL MATERIALS - PANEL BOARDS	REVISION	19 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>PANEL BOARDS Install/Connect/Test</u>		
	<u>Circuit Breaker Type (Single Phase)</u>		
GT-451	50-100 amps to concrete surface	.7956 .0977	JOB CIRCUIT
GT-452	50-100 amps to steel column	1.1343 .0659	JOB CIRCUIT
GT-450	50-100 amps to wood surface	.6054 .0659	JOB CIRCUIT
GT-457	225 amps to concrete surface	.8588 .0659	JOB CIRCUIT
GT-458	225 amps to steel column	1.1657 .0659	JOB CIRCUIT
GT-456	225 amps to wood surface	.6368 .0659	JOB CIRCUIT
	<u>Circuit Breaker Type (Three Phase)</u>		
GT-454	50-100 amps to concrete surface	.8604 .0659	JOB CIRCUIT
GT-455	50-100 amps to steel column	1.1673 .0659	JOB CIRCUIT
GT-453	50-100 amps to wood surface	.6384 .0659	JOB CIRCUIT
GT-460	225 amps to concrete surface	.9020 .0659	JOB CIRCUIT
GT-461	225 amps to steel column	1.2088 .0659	JOB CIRCUIT
GT-459	225 amps to wood surface	.6800 .0659	JOB CIRCUIT
	<u>480Y/277 Volt Panel</u>		
GT-648	To wood surface	.6319 .2481	PANEL CIRCUIT
GT-649	To concrete surface	.7989 .2481	PANEL CIRCUIT
GT-650	To steel column	1.1391 .2481	PANEL CIRCUIT

60 CHAPTER	ELECTRICAL MATERIALS - PANEL BOARDS	REVISION	20 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>PANEL BOARDS</u> Install/Connect/Test		
	<u>Fusable Type (Single Phase)</u>		
GT-468	50-100 amps to concrete surface	1.1581 .0730	JOB CIRCUIT
GT-469	50-100 amps to steel column	1.4983 .0730	JOB CIRCUIT
GT-467	50-100 amps to wood surface	.9911 .0730	JOB CIRCUIT
GT-474	225 amps to concrete surface	1.1895 .0730	JOB CIRCUIT
GT-475	225 amps to steel column	1.5298 .0730	JOB CIRCUIT
GT-473	225 amps to wood surface	1.0226 .0730	JOB CIRCUIT
	<u>Fusable Type (Three Phase)</u>		
GT-471	50-100 amps to concrete surface	1.1594 .0730	JOB CIRCUIT
GT-472	50-100 amps to steel column	1.5314 .0730	JOB CIRCUIT
GT-470	50-100 amps to wood surface	1.0242 .0730	JOB CIRCUIT
GT-477	225 amps to concrete surface	1.2326 .0730	JOB CIRCUIT
GT-478	225 amps to steel column	1.5728 .0730	JOB CIRCUIT
GT-476	225 amps to wood surface	1.0657 .0730	JOB CIRCUIT
	<u>PANEL BOARD CIRCUITS</u>		
GT-496	Additional Fusable Switch type circuits	.1555 .1395	JOB CIRCUIT

60 CHAPTER	ELECTRICAL MATERIALS - PANEL BOARDS	REVISION	21 PAGE
REF.	TASK DESCRIPTION	UNIT Nouns	UNIT
GT-462 GT-463	<u>Large Distribution Panels Install/Connect/Test</u> To wood surface To steel column	1. 7881 2. 3178	JOB JOB
GT-495	<u>ADDITIONAL CIRCUITS Install</u> Additional Circuit Breaker type circuits	. 1555 . 1309	JOB CIRCUIT
	<u>REMOVE PANEL BOARDS</u> <u>REMOVE SINGLE PHASE PANEL BOARDS</u>		
GT-485	50-100 amps from concrete or wood surface	. 1837 . 0528	PANEL CIRCUIT
GT-485	50-100 amps from steel column	. 3466 . 0528	PANEL CIRCUIT
GT-489	225 amps from concrete or wood surface	. 2152 . 0528	PANEL CIRCUIT
GT-490	225 amps from steel column	. 3781 . 0528	PANEL CIRCUIT
	<u>REMOVE THREE PHASE PANEL BOARDS</u>		
GT-487	50-100 amps from concrete or wood surface	. 2063 . 0528	PANEL CIRCUIT
GT-488	50-100 amps from steel column	. 3692 . 0523	PANEL CIRCUIT
GT-491	225 amps from concrete or wood surface	. 2478 . 0528	PANEL CIRCUIT
GT-492	225 amps from steel column	. 4107 . 0528	PANEL CIRCUIT
GT-620	Open knockout in box with hydraulic punch	. 0784	HOLE
GT-640	Open hole (knockout) in electrical component box with punch and puller turned by wrench	. 1445	HOLE

ELECTRICAL MATERIALS - WIRES

EXPLANATION AND SCOPE OF STANDARDS

WIRE CONNECTIONS

These tasks apply to the stripping, connecting, disconnecting, forming, dressing, splicing, soldering and insulating of number 8 or smaller wire and the installation or removal of 110v - 20a switches or receptacles.

The established values cover handling and connecting wires to both the line and load side terminals of a switch block. Hence the actual number of wire ends connected is twice the number of wires in the circuit.

Tools and equipment required for these operations include soldering iron, solder, tape and the tools normally carried in the electrician's tool pouch fastened to his belt.

In these tasks the average time for a western union, pigtail and tee splice was used.

6. JOB PHASE DESCRIPTION Connect new circuit at panel - NW corner of Hangar LP-2.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME
		UNIT HOURS	OCCURRENCE	CRAFT TIME	
7	8	a.	b.	c.	10
GT-175	Connect circuit to panel box	.0013	1	.01	
	splice	.0242	1	.02	
GT-620	Open hole in box for new circuit	.0784	1	.08	
		TOTALS (Craft & Estimated Time)			.11

70 CHAPTER	ELECTRICAL MATERIALS - WIRES		REVISION	23 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT	
	<u>WIRES</u>			
	<u>Connect With Connectors</u>			
GT-175	8awg or smaller	.0013 .0242	BOX SPLICE	
GT-179	4awg-2/0	.0027 .0888	BOX SPLICE	
GT-177	6awg	.0013 .0688	BOX SPLICE	
GT-186	<u>Connect With Solder</u>	.0723 .0939	JOB WIRES	
	<u>Straight Splice Single Conductor</u>			
GT-056	Lead sheathed 4/0-450mcm	3.4649	JOB	
GT-051	Pol yethyl ene jacketed 8awg-3/0	1.1867	JOB	
GT-052	Pol yethyl ene jacketed 1250-2500mcm	3.2172	JOB	
	<u>Straight Splice Three Conductor</u>			
GT-058	Lead sheathed 4/0-450mcm	6.1566	JOB	
GT-053	Pol yethyl ene jacketed 8awg-3/0	6.1895	JOB	
GT-054	Pol yethyl ene jacketed 4/0-450mcm	7.6660	JOB	
GT-055	Pol yethyl ene jacketed 500-1000mcm	9.8930	JOB	
	<u>Y-Splice Wires</u>			
GT-206	8awg or smaller	.0013 .0510	BOX SPLICE	
GT-208	6awg	.0013 .1032	BOX SPLICE	
GT-210	4awg-2/0	.0027 .1233	BOX SPLICE	

ELECTRICAL MATERIAL - WIRES

EXPLANATION AND SCOPE OF STANDARDS

The tools used for this operation are: wire puller (fishtape), rope and standard electrician's tools. As the method changes with the size of wire, various time values have been established. The electrician uses a different method for pulling No. 8 or smaller wires through conduit than for No. 6 or larger wires. To pull No. 8 or smaller wires, the electrician runs a wire puller (fishtape) through the conduit, secures the wires to the fishtape, pulls the wires through the conduit and then cuts wires to required length. To pull No. 6 or larger wires, the electrician lays wires out, measures and cuts the required number of wires to length. He then runs a fishtape through the conduit, secures a rope to it and pulls the rope through the conduit. Then he secures the wires to the rope and pulls the wires through the conduit.

These tasks apply to pulling one or more No.2 or smaller wires through conduit. The tasks include time for removing the wire from the cartons, cutting to approximate length and pulling it through the conduit and out of electric boxes. It does not include time for connection of wires. It does include the time required to form loops in circuit wires at boxes on a through wire pull and cut to provide circuit wire ends of sufficient length for later dressing (stripping, forming and connection) purposes. Connection of No. 8 or smaller wire, including dressing, is covered in tasks GT-175, 177, 188 and connection of No. 6 or larger wire, including dressing, is covered in task Gr-179.

The final values provide time for pulling wire from one open electric box to the next. Consequently the length of "pull" is to be based upon the distance between the two boxes under consideration. To provide circuit wire ends for subsequent connection at any box located on a thorough wire pull, sufficient additional wire is pulled out to form a loop of slack wire which when cut provides the necessary wire end lead length required to make connections.

6. JOB PHASE DESCRIPTION Install three #8 conductors in 1" conduit with two boxes for 30 foot wire run.

REFERENCe	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR- RENCE b.	CRAFT TIME c.	
7	8				
GT-81	Install 1" conduit	.111	5	.56	
GT-149	Pull 3 #8 wire through conduit FOOT	.00369	30	.11	
		.0439	3	.13	
GT-82	Install boxes	.266	2	.53	
GT-620	Open knockouts in boxes	.078	2	.16	
PWA-5	Additional material handling for wire and conduit	.04	2	.08	
		TOTALS (Craft & Estimated Time)		1.57	

70 CHAPTER	ELECTRICAL MATERIALS - WIRES/RECEPTACLES		REVISION	25 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT	
	<u>WIRES</u>			
GT-614	Cut Access Hole (through wood with hole saw)	.0503	HOLE	
	<u>Pull to Install Wire</u>			
GT-149	8awg or smaller	.0036 .0439	FOOT WI RE	
GT-151	6awg-2awg	.0055 .0333	FOOT WI RE	
	<u>RECEPTACLES</u>			
GT-157	Install duplex type receptacle	.0483 .1075	JOB UNI T	
GT-088	Install in restricted area	.3500	80X	
GT-630	Extension box (install)	.1563	OUTLET	
GT-159	Install explosion proof double pole type receptacle	.0483 .1025	JOB UNI T	
GT-158	Remove duplex type receptacle	.0438 .1007	JOB UNI T	
	<u>SWITCHES</u>			
GT-155	Single pole switch (install)	.0483 .0886	JOB SWI TCH	
GT-156	Single pole switch (remove)	.0137 .0800	JOB SWI TCH	
GT-088	Install switch in restricted area	.3337	BOX	

80 CHAPTER	LIGHTING - OUTDOOR	REVISION	27 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>AIRFIELD LIGHTING</u>		
GT-636	Adjust VASI lights	.0673 .1387	UNIT LOCATION
GT-637	Calibrate VASI aiming bar	.1209	JOB
GT-250	<u>EMERGENCY LIGHTING</u> (install)	.3938 1.4077 .4532	JOB FIXTURE SECTION
	<u>EXTERIOR LIGHTING</u>		
GT-644	Replace Fixture	.1151	FIXTURE
	<u>FLOOD LAMPS</u> (relamp)		
GT-293	Using hydraulic bucket	.1893	LAMP
GT-292	Using hydraulic extension ladder	.2188 .0380 .0275	JOB BOX BULB
	<u>HIGHWAY</u>		
GT-412	Incandescent (remove line and fixture from pole)	.0502 .1207	JOB POLE
GT-415	Lamp Support (remove support arm and fixture from pole)	.1080 .0746 .3167	JOB POLE LAMP
	<u>SODIUM</u>		
GT-413	Install 400 watt	.0327 .3328 .1131 .1171	JOB FIXTURE POLE 500 LF
GT-414	Install (after removing incandescent lamp)	.0829 .3328 .2338 .1171	JOB FIXTURE POLE 500 LF

LIGHTING - FLUORESCENT

EXPLANATION AND SCOPE OF STANDARDS

These tasks apply to servicing fluorescent and incandescent lamp fixtures, the work of which is accomplished in place by the removal and installation of all defective parts. They also apply to the removal and installation of all incandescent and fluorescent lamp fixtures, other than recessed types the bases of which are fastened to troughs or stem or chain mounted units. For multiple or continuous row installation, additional time for interconnection and alignment of fixtures has been allowed. All values are based upon one person accomplishment of intended work because the balancing delay portion of the applicable multi-person craft allowance provides sufficient additional time to cover the negligible work period when two persons are actually required. These tasks do not apply to the cleaning of fixtures or the fabrication and installation of stems or chains. All fixtures are regarded to be within the working reach of an (8) foot stepladder. Time values for fixtures being worked on are based on a spacing of approximately twenty (20) feet. Hanging and aligning fixture values were developed for individual or continuous row fixtures.

Lamp replacement: The draftsman moves container of replacement items along while working, sets up ladder, removes louver or diffuser if necessary, removes burned-out lamps and installs new lamps and moves to next fixture, placing old tubes in carton for later disposal. Starter replacement: Same as above except that in addition old starter is removed and new installed. Starter socket replacement: Same as above except that in addition old starter socket is removed and new installed. Lamp socket replacement: Same as lamp replacement except that in addition old lamp socket is removed and new installed. Ballast replacement: Same as lamp replacement except that in addition fixture is disassembled, old ballast removed and new installed; make necessary connections, check for proper operation and reassemble fixture.

Hang and align fixture: The draftsman partially disassembles fixture to mount fixture base; mounts fixture by fastening to electrical box, wire trough, stems or chains, makes necessary wire connections and reassembles fixture in place.

6. JOB PHASE DESCRIPTION

Fluorescent fixture in Room 213 of N-23 has defective ballast and starter.

Fixture contains 4 fluorescent tubes.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME		
7	8			
GT-301	Remove and replace defective ballast	.5144	1	.51
GT-302	Remove and replace defective starter	.0037	1	.01
		.0648	4	.26
		.0529	1	.06
	NOTE: Since both ballast and starter are on the			
	same fixture only one fixture time and tube time			
	is required. Tube time will remain the same for all			
	components, however for fixture times always use the			
	higher value.			
		TOTALS (Craft & Estimated Time)		.84

90 CHAPTER	LIGHTING - FLUORESCENT		REVISION	29 PAGE
REF.	TASK	DESCRIPTION	UNIT HOURS	UNIT
<u>FLUORESCENT LIGHTING</u>				
<u>Fixture Components</u>				
GT-300	4'	Flourescent Tube (remove and reinstall)	.0195 .0648	FI XTURE TUBE
GT-301	Ballast	(remove/replace)	.0548 .0648 .5144	FI XTURE TUBE BALLAST
GT-302	Starter	(remove/replace)	.0195 .0648 .0037	FI XTURE TUBE STARTER
GT-303	Starter/Socket	(remove/replace)	.0366 .0648 .0447	FI XTURE TUBE SOCKET
GT-020	<u>FLOOR LAMPS</u>	Remove/install cord	.4987	JOB

90 CHAPTER	LIGHTING - FLUORESCENT	REVISION	30 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>FLUORESCENT LIGHTING</u>		
GT-616	<u>Recessed Fixtures (Troffer) install</u>	1.3212	TWO FIXTURES
	<u>Stem Mounted Fixtures</u>		
	<u>Disassemble/remove</u>		
GT-258	Individual fixtures 2 or 4 tubes	.3812	FIXTURE
GT-259	Interconnected fixtures 2 or 4 tubes	.0648	JOB
		.2161	FIXTURE
	<u>Install</u>		
	<u>Mounted to Adjacent Junction Box</u>		
GT-246	Individual fixtures 2 or 4 tubes	.8156	FIXTURE
GT-247	Interconnected fixtures	.7092	FIXTURE
	<u>Mounted to Junction Box</u>		
GT-242	Individual fixtures 2 or 4 tubes	.6773	FIXTURE
GT-243	Interconnected fixtures 2 or 4 tubes	.9443	FIXTURE
	<u>Replace</u>		
GT-572	With 2 or 4 tube to junction box	1.0586	JOB
GT-573	With interconnected fixtures to junction box	1.3256	JOB
GT-574	With surface mounted fixture to junction box	.6845	JOB
GT-575	With interconnected surface mounted fixture	1.0089	JOB
GT-576	Adjacent to junction box	1.1968	JOB
GT-577	With interconnected fixtures adjacent to junction box	1.0904	JOB
GT-578	With surface fixture adjacent to junction box	.8636	JOB
GT-579	With interconnected surface mounted adjacent	1.2582	JOB
GT-580	With Surface incandescent fixture to junction box	.5832	JOB
GT-581	With stem mounted incandescent fixture	.8763	JOB

90 CHAPTER	LIGHTING - FLUORESCENT	REVISION	31 PAGE
REF .	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>FLUORESCENT LIGHTING</u>		
	<u>Surface Mounted Fixtures</u>		
	<u>Disassemble/remove</u>		
GT-256	Individual fixtures 2 or 4 tubes	.2576	FIXTURE
GT-257	Interconnected fixtures 2 or 4 tubes	.1465 .1545	JOB FIXTURE
	<u>Install</u>		
	<u>Mounted to Adjacent Junction Box</u>		
GT-244	Individual fixtures 2 or 4 tubes	.4824	FIXTURE
GT-245	Interconnected fixtures 2 or 4 tubes	.8770	FIXTURE
	<u>Mounted to Junction Box</u>		
GT-240	Individual fixtures 2 or 4 tubes	.3033	FIXTURE
GT-241	Interconnected fixtures 2 or 4 tubes	.6276	FIXTURE
	<u>Relamp</u>		
GT-280	Standard class diffused type	.0144 .0232	FIXTURE
GT-281	Standard open reflector type	.0061 .0232	FIXTURE LAMP
GT-282	Standard vapor sealed type	.0441 .0232	FIXTURE LAMP
	<u>Replace</u>		
GT-582	With stem mounted to junction box	.9349	JOB
GT-583	With interconnected stem mounted to junction box	1.2012	JOB
GT-584	With surface mounted to junction box	.5609	JOB
GT-585	With interconnected fixture to junction box	.8852	JOB
GT-586	With stem mounted adjacent to junction box	1.0732	JOB
GT-587	With interconnected adjacent to stem mounted fixture	.9668	JOB
GT-588	With surface mounted adjacent fixture	.7402	JOB
GT-589	With interconnected adjacent surface fixture	1.1346	JOB
GT-590	With surface mounted incandescent fixture	.4596	JOB
GT-591	With stem mounted incandescent fixture	.7527	JOB

LIGHTING - INCANDESCENT

EXPLANATION AND SCOPE OF STANDARDS

These tasks apply to installation and removal of Incandescent lamps using 9', 18', or 27' adaptable lamp changer. Tasks only apply to the changing of overhead lamps where the use of a bulb changer is necessary. Tasks cover the replacement of light bulbs up to and including 750 wattage. Distances between lamps average (20) paces.

The equipment required for this Job is an adaptable telescopic section bulb changer. The operator picks up the necessary tools and equipment, and goes to work site. The operator then removes lamps, inserts new lamps, picks up bulb changer and box of lamps and goes to next lamp to be changed.

6. JOB PHASE DESCRIPTION Relamp 20 each Incandescent fixtures using bulb changer. Incandescent fixtures are located in gymnasium, 8 fixtures are located on 9' ceiling at entrance, remaining 12 are located in rear of gym on 27' ceiling.

REFERENCE	TASK DESCRIPTION	9. ESTIMATED TIME			NON-EPS ESTIMATED TIME
		UNIT HOURS	OCCUR-RENCE	CRAFT TIME	
7	8	a.	c.	c.	10
GT-289	Relamp incandescent fixtures using 9' bulb changer	.0221	8	.18	
GT-291	Relamp incandescent fixtures using 27' bulb changer	.0365	12	.44	
				TOTALS (Craft & Estimated Time)	.62

100 CHAPTER	LIGHTING - INCANDESCENT	REVISION	33 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>INCANDESCENT</u>		
	<u>Stem Mounted Fixtures</u>		
GT-261	Disassemble/remove	.1607	FIXTURE
GT-249	Install	.4951	FIXTURE
	<u>Relamp</u>		
GT-283	Explosion proof up to 300 watts	.0391	FIXTURE
GT-287	Flush mounted glass diffused	.0528	FIXTURE
GT-285	Frost globes up to 300 watts	.0342	FIXTURE
GT-284	Open reflector up to 300 watts	.0046	FIXTURE
GT-286	Vapor proof up to 300 watts	.0303	FIXTURE
	<u>Relamp up to 750 watts (with bulb changer)</u>		
GT-289	9' height	.0221	FIXTURE
GT-290	18' height	.0294	FIXTURE
ST-291	27' height	.0365	FIXTURE
	<u>Replace</u>		
GT-602	With stem mounted fluorescent fixture	.8335	JOB
GT-603	With interconnected stem mount fluorescent	1.1005	JOB
GT-604	With surface mounted fluorescent fixture	.4595	JOB
GT-605	With interconnected surface fluorescent fixture	.7838	JOB
GT-606	With stem mounted adjacent fluorescent fixture	.9718	JOB
GT-607	With interconnected stem mount fluorescent fixture	.8654	JOB
GT-608	With surface mount adjacent fluorescent fixture	.6386	JOB
GT-609	With interconnected surface adjacent fluorescent fixture	1.0332	JOB
GT-510	With surface mounted incandescent fixture	.3581	JOB
GT-611	With stem mounted incandescent fixture	.6513	JOB
	<u>SURFACE MOUNTED FIXTURES</u>		
GT-260	Disassemble and remove	.1351	FIXTURE
GT-248	Install	.2019	FIXTURE
	<u>Replace</u>		
GT-592	With stem mounted fluorescent fixture	.8079	JOB
GT-593	With interconnected stem mounted fluorescent fixture	1.0749	JOB
GT-594	With surface mounted fluorescent fixture	.4339	JOB
GT-595	With interconnected surface fluorescent fixture	.7582	JOB
GT-596	With stem mounted adjacent fluorescent fixture	.9462	JOB
GT-597	With interconnected stem mount adjacent fluorescent	.8398	JOB
GT-598	With surface adjacent fluorescent fixture	.6130	JOB
GT-599	With interconnected surface adjacent fluorescent	1.0076	JOB
GT-600	With surface mounted incandescent fixture	.3325	JOB
GT-601	With stem mounted incandescent fixture	.6257	JOB

SERVICE/DISTRIBUTION - MANHOLES

EXPLANATION AND SCOPE OF STANDARDS

Manholes must be tested for toxic gases before work can be performed within. An air sampling device may be lowered into the manhole to test the air or a tube of a sensitive gel which changes color when gases are present. Carbon Dioxide may be injected into a manhole to eliminate chances of explosion.

Manholes are ventilated while workers are present with portable gasoline or electric blowers.

Standing water is pumped from manholes with permanent sump pumps or a portable gasoline or electric pump.

Multiply gallons per minutes (GPM) pump rating X 8.021 for cubic feet of water pumped per hour. For example 7' X 8' manhole with about 3' of water equals 168 cubic feet. A 50 GPM pump will remove 401 cubic feet in an hour or 168 cubic feet in .42 hour.

6. JOB PHASE DESCRIPTION Prepare manhole for maintenance test for toxic fumes and ventilate.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME c.	
7	s				
GT-622	Test manhole for gas	.451	1	.45	
GT-624	Pump carbon dioxide into manhole	.534	1	.53	
GT-625	Ventilate manhole with portable gas blower	.235	1	.24	
EST	Run time for blower				.5
		TOTALS (Craft & Estimated Time)		1.22	.5

110 CHAPTER	SERVICE/DISTRIBUTION - MANHOLES	DIVISION	35 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>MANHOLES</u>		
GT-624	Inject with carbon dioxide	.5343	JOB
	<u>Pump water out using</u>		
GT-629	permanently installed sump pump	.1326	JOB
GT-628	portable electric pump	.2464	JOB
GT-627	portable gasoline pump	.2238	JOB
	<u>Test for toxic gases using</u>		
GT-622	atmospheric test instrument	.4519	JOB
GT-623	colorimetric indicating gel tube	.4760	JOB
	<u>Ventilate using</u>		
GT-626	portable electric blower	.1899	JOB
GT-625	portable gasoline blower	.2359	JOB

SERVICE/DISTRIBUTION - TEMPORARY AND GROUNDS

EXPLANATION AND SCOPE OF STANDARDS

Temporary service conductors are installed to keep "down" time to a minimum during electrical repairs or change overs. The distance from power source to the area requiring service is measured and conductors are unreeled and cut to length. Wire ends are stripped and bent for installing in panels. The main power is secured and wires are removed and temporary service is installed. When power is turned on, phasing is checked with meter and the hookup is changed if necessary. After repairs the temporary service is removed and new wiring connected and tested. The temporary conductors are coiled and loaded on truck for possible future reuse.

6. JOB PHASE DESCRIPTION Install temporary service (480V 4 wire) from sewage pumping station to pump while new underground conduit and wire is installed.

7 REFERENCE	8 TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME c.	
GT-618	Install temporary service over 100 amp	.50511	1	.51	
PWA-5	Two persons carry wire coil to site and return	.11	1	.11	
				TOTALS (Craft & Estimated Time)	.62

120 CHAPTER	SERVI CE/DI STRI BUTI ON - TEMPORARY AND GROUNDS	REVI SI ON	37 PAGE
REF.	TASK DESCRIPTION	UNI T HOURS	UNI T
	<u>ELECTRI CAL SERVI CE-TEMPORARY</u>		
GT-617	Instal l up to 100 amps	. 2879	SERVI CE
GT-618	Instal l over 100 amps	. 5051	SERVI CE
	<u>GROUNDI NG RODS</u>		
GT-406	Instal l/remove	. 4945	ROD
GT-407	Incl udi ng protecti ve wi re mol di ng on pole	. 9988	JOB
	<u>GROUNDI NG SYSTEMS</u>		
GT-504	Check resi stance of external poi nts- instal l ground rod	. 2127 . 2556	JOB ROD
GT-503	Check resi stance of external poi nts- instal l jumper wi re	. 2127 . 5820	JOB WI RE
GT-505	Repai r groundi ng termi nal /make operati onal check	. 1753 . 6312	JOB TERMI NAL
GT-501	Test bondi ng at 8 termi nal poi nts	. 1834	JOB
GT-502	Test bondi ng at 10 termi nal poi nts	. 1960	JOB

EXPLANATION AND SCOPE OF STANDARDS

CROSS ARM INSTALLATION

For new pole installation, poles are gained and drilled on the ground. For existing poles, electricians gain and drill the pole from a bucket truck. Cross arms are lifted into position on pole with a hoist mounted on a truck. One electrician will operate the hoist while an additional two will climb the pole or use the bucket. Bolts are fitted to the holes and an angle brace for single or double cross arm is installed for support. Pins and insulators are installed for installation of conductors.

6. JOB PHASE DESCRIPTION Install double cross arms on pole conductors previously removed. Use bucket truck for installation.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME
		UNIT HOURS	OCCUR-RENCE	CRAFT TIME	
7	8	a.	b.	c.	10
GT-423	Install double cross arm on pole	.6326	1	.63	
GT-421	Use bucket truck to install arms	.2025	2	.41	
	NOTE: Standard 423 does not include time to ascend/				
	descend pole with bucket truck. In which case GT-421				
	is used. GT-421 is frequented twice since it is based				
	on one ascend/descend cycle.				
		TOTALS (Craft & Estimated Time)		1.04	

130 CHAPTER	SERVICE/DISTRIBUTION - LINE AND POLE WORK	REVISION	39 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>LINE WORK</u> (also see poles and power lines)		
	<u>Climb Pole</u>		
GT-420	With belt and gaffe	.3438	JOB
GT-421	With bucket truck	.2190	JOB
	<u>Cut Pole</u>		
GT-443	Obstructed	.5381	JOB
GT-444	Unobstructed	.0863	JOB
GT-440	Enter and leave secured storage yard	.2110	JOB
GT-441	Load Poles on trailer	.2787 .5090	JOB POLE
	<u>Install Crossarms to Pole</u>		
GT-423	Double crossarm	.6652	ARM
GT-422	Single crossarm	.3460	ARM
GT-437	Steps to pole on ground	.3125	STEP
	<u>Remove Crossarms from Pole</u>		
GT-419	Double crossarm	.4551	ARM
GT-418	Single crossarm	.1626	ARM
	<u>Straighten Pole (With Conductors)</u>		
GT-372	Using truck and winch	.5334 .2607	JOB CONDUCTOR
GT-373	Using jack	.4121 .2608	JOB CONDUCTOR
	<u>Straighten Pole (Without Conductors)</u>		
GT-370	Using truck and winch	.5742	JOB
GT-371	Using jack	.4529	JOB

130 CHAPTER	SERVICE/DISTRIBUTION - LINE AND POLE WORK	REVISION	4 1 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>High Voltage</u>		
	<u>Pins & Insulators</u>		
GT-424	Install or remove	.2158 .0564	JOB UNIT
GT-425	Remove/reinstall insulators and reposition conductors	.0345 .1952	JOB CONDUCTOR
GT-426	Reposition conductors	.0640	CONDUCTOR
GT-427	Remove/reinstall pins and insulators	.0691 .1952	JOB CONDUCTOR
GT-435	Jumper Connections install	.2522	UNIT
GT-409	Jumper Wires install obstructed	.4902	WI RE
GT-408	Install unobstructed	.3033	WI RE
GT-445	Lightning Arrestors/Fused install circuits	.1469	UNIT
GT-436	Low Voltage pin bracket and communication wire install	.0444	UNIT
GT-442	Primary Switches (open/close)	.0932	JOB
GT-438	<u>Cartridge Fuses</u> Replace with cut out switches	.0389 .0164	JOB FUSE
GT-434	<u>Clevis Insulators</u> Install	.1216	UNIT

SERVICE/DISTRIBUTION - POWER LINES

EXPLANATION AND SCOPE OF STANDARDS

These tasks apply to stringing overhead distribution wire and cable and making necessary connections. All final values provide total allowed time required for three person crew or less to perform work. Tools required are those contained in line person's belt and other equipment and tools commonly found on line truck, such as block and tackle, ratchet hoist and wire grips for pulling wire taut or relieving strain when tying or untying conductors to pole line fittings.

Tasks were developed using portable payout reels for unwinding new, full or partial coils of wire and the use of ratchet or screw jack supported spindles to suspend heavy, full or partial reels (spools) of wire. Preparatory to stringing operations or the reels are placed on a truck or reel trailer and cable payed out as the truck moves forward. A portable payout reel is set up at the work site. Wrapping is removed from the coil of wire or cable and the coil is set on the payout reel for pulling out (stringing) purposes. For larger jobs, the cable or wire shipping spool is set up on a jack-supported spindle and the conductor is pulled off this reel. When a new reel is to be used the heavy reel is loaded and unloaded from the truck using the truck-mounted winch or hoist. The lead end of the cable or wire conductor is attached to a pull rope and then raised and reeved through snatch block (sling-attached pulley) attached to either the first (connection end) pole or the last (terminal end) pole of the desired line to be strung and then pulled back to ground for pull out of the required number of spans. Personnel or a truck then pull out the cable or wire conductor the required number of spans while one person tends the reel. Two persons are usually required for pulling out a #4/0 through #1/0 conductor when the number of spans exceeds (3) or a #1 through #6 conductor when the number of spans exceeds (5). A truck is usually used for pulling out a #4/0 through #1/0 conductor when the number of spans exceeds (6) or a #1 through #6 conductor when the number of spans exceeds (10). (A third person is required in truck pulling operations for signaling purposes.)

(Continued on next page)

6. JOB PHASE DESCRIPTION String 4 each 4/0 conductors across 5 poles (4 spans) for newly installed poles in rear of enlisted family housing section.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME c.	
7	8				
GT-323	Install 1/0 - 4/0 1 each conductor	2.9086	1	2.91	
		.7324	4	2.93	
GT-324	Install 1/0 - 4/0 additional conductor	2.1592	1	2.16	
		.6854	12	8.22	
		TOTALS (Craft & Estimated time)		16.22	

140 CHAPTER	SERVICE/DISTRIBUTION - POWER LINES	REVISION	43 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>POWER LINES</u>		
	<u>Conductors</u>		
GT-220	<u>Install 14awg/8 conductor fire alarm circuit</u>	.3011 .1984	JOB POLE
	<u>Install 6awg-1awg</u>		
GT-319	1 conductor	1.8578 .3520	JOB SPAN
GT-320	Additional conductor	1.1215 .2224	JOB SPAN
	<u>Install 1/0-4/0</u>		
GT-323	1 conductor	2.9086 .7324	JOB SPAN
GT-324	Additional conductor	2.1592 .6854	JOB SPAN
	<u>Remove 6awg to 1awg</u>		
GT-327	1 conductor	1.4528 .1444	JOB SPAN
ST-328	Additional conductor	1.3031 .3535	JOB SPAN
GT-331	<u>Remove 1/0 to 4/0 1 conductor</u>	1.4528 .1444	JOB SPAN
GT-332	Additional conductor	1.9491 .9535	JOB SPAN

EXPLANATION AND SCOPE OF STANDARDS

(Continued from previous page)

When all conductors have been pulled out the required number of spans, the line crew is positioned at the last pole of the conductor "pull-out" where each conductor lead end is raised and permanently fastened to previously installed fittings. The line crew usually works from new terminal end of the desired line to be strung back toward the existing terminal end pole. If intermediate poles occur in the run, each conductor is raised and draped over respective crossarm or spool rack fitting and any excess slack in conductor is pulled out in previous span by line persons and ground persons working back toward jumper (connection) end of line installation. When intermediate poles occur in the line, take up of #4/0 through #1/0 conductor is accomplished using wire puller and grips on every other pole whereas on the smaller conductor, take up is done on every (4th) pole.

Correct sag in conductors is established by use of sag gauge and wire tied to each intermediate crossarm insulator. When all but the last span of conductors at the jumper (connection) end pole have been properly sagged and tied to respective insulators and the tension in the last span for each conductor has been taken up. The conductor is cut, the balance of the wire or cable is rewound and the jumper end of each conductor is permanently fastened. Jumper wires are installed at this first (connection) pole to energize the newly installed system. Training (tie line) wire, primary distribution leads to equipment, primary tie connections between equipment, secondary terminal drops or bus connections are then installed by tying to pre-installed insulators and dressed along or across pole and framing members, as required.

6. JOB PHASE DESCRIPTION Remove 3 each 4 AWG conductors from 3 poles (2 spans) and install 3 new 4 AWG.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME
		UNIT HOURS	OCCUR- RENCE	CRAFT TIME	
7	a				
GT-327	Remove 6 AWG to 1 AWG 1 each conductor	1.4528	1	1:45	
		.1444	2	.29	
GT-328	Remove 6 AWG to 1 AWG Additional conductor	1.3031	1	1:30	
	2 conductors at 2 spans each = 4	.0535	4	.21	
GT-319	Install 6 AWG to 1 AWG 1 each conductor	1.8578	1	1:86	
		.3520	2	.70	
GT-320	Install 6 AWG to 1 AWG Additional conductor	1.1215	1	1:12	
	2 conductors at 2 spans each = 4	.2224	4	.89	
		TOTALS (Craft & Estimated Time)		7:82	

140 CHAPTER	SERVICE/DISTRIBUTION - POWER LINES	REVISION	45 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>POWER LINES</u>		
	<u>3 Spool Secondary Rack</u>		
GT-428	Install	. 2229	JOB
GT-416	Remove	. 1371	JOB
GT-429	Remove and reinstall	. 5671	JOB
GT-426	Reposition conductor	. 0640	COND
	<u>5 Spool Secondary Rack</u>		
GT-430	Install	. 3223	JOB
GT-417	Remove	. 3223	JOB
GT-431	Remove and reinstall	. 7471	JOB

EXPLANATION AND SCOPE OF STANDARDS

These tasks apply to the installation or removal of poles using a manually assembled pole derrick or a hydraulic pole derrick. With manually assembled pole derrick, three persons including the driver who operates the rear winch from the truck cab are used. Four pole derrick legs are removed from compartment on line truck and assembled to back end of truck. The winch is operated from inside truck cab, and winch cable is pulled out and strung over sheave at top of derrick. The winch is used to raise the derrick to the desired height and to raise and lower pole. The center derrick leg consists of two telescoping sections secured at the desired height with a steel pin. The winch cable is attached around the pole as a choker sling. The pole is raised to check balance and adjusted if necessary. The butt end of the pole is lowered into the hole, two persons align pole correctly with cant hooks. Pole is then aligned by using pole pikes and the third person sighting for alignment with plumb bob. Pole derrick is disassembled at end of job.

The hydraulically operated pole derrick is raised into working position by truck driver from truck cab, and pole is set by same procedure as manually assembled pole derrick.

Full length poles are removed with the use of pole derrick and pole jack after removing earth from around the pole. The pole jack is used to free the pole so that the pole may be pulled out easily using the winch line. Remaining pole butts of previously sawed off poles are removed in the same manner after the sawed off section of the pole has been unlashd from its replacement pole and lowered to ground.

6. JOB PHASE DESCRIPTION Install three single cross arm poles across end of parade ground per enclosed map. Excavate and backfill after installation.

REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON - EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR-RENCE b.	CRAFT TIME c.	
7	8				
GT-340	Install single cross arm poles pole	3.4836	3	10.45	
	(includes excavation) job	.9443	1	.94	
	pin	.0564	6	.34	
GT-421	Use bucket truck	.2190	3	.66	
		TOTALS (Craft & Estimated Time)		12.39	

150 CHAPTER	SERVICE/DISTRIBUTION - POLES	REVISION	47 PAGE
REP.	TASK DESCRIPTION	UNIT N o m s	UNIT
	<u>Free Standing</u>		
	<u>Install</u>		
GT-340	Single crossarm pole	.9443 3.4836 .0564	JOB POLE PIN
GT-342	2 each single crossarm poles	.9443 3.8431 .0564	JOB POLE PIN
GT-341	Double crossarm pole	.9443 3.9831 .0564	JOB POLE PIN
GT-343	2 each double crossarm poles	.9443 4.8332 .0564	JOB POLE PIN
GT-355	Plain pole	.2369 1.3402	JOB POLE
GT-344	Telegraph pole	.9443 3.1605	JOB POLE
GT-440	Enter and 1 cave secured storage yard	.2110	JOB

150 CHAPTER	SERVICE/DISTRIBUTION - POLES	REVISION	48 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>Free Standing (remove)</u>		
GT-350	Single crossarm pole	. 9443 2. 1526 . 0564	JOB POLE PIN
GT-352	2 each single crossarm poles	. 9443 2. 3060 . 0564	JOB POLE PIN
GT-351	Double crossarm pole	. 9443 2. 4360 . 0564	JOB POLE PIN
GT-353	2 Each double crossarm poles	. 9443 2. 8728 . 0564	JOB POLE PIN
GT-354	Telegraph pole	. 9443 2. 0880	JOB POLE

150 CHAPTER	SERVI CE/DI STRI BUTI ON - POLES	REVI SI ON	49 PAGE
REF.	TASK DESCRI PTI ON	UNI T HOURS	UNI T
	<u>Remove/Rei nstal l</u>		
GT-366	<u>Telegraph Pole</u> (2 conductor)	. 7408 7. 2871	JOB POLE
	<u>Intermedi ate Pole</u>		
GT-360	1 pole wi th 1 si ngl e crossarm	8. 2092 . 1463	JOB CONDUCTOR
GT-361	1 pole wi th 2 si ngl e crossarms	7. 9155 . 1463	JOB CONDUCTOR
GT-362	1 pole wi th 1 doubl e crossarm	8. 8221 . 2774	JOB CONDUCTOR
GT-363	1 pole wi th 2 doubl e crossarms	10. 2032 . 2774	JOB CONDUCTOR
	<u>Termi nal Pole</u>		
GT-364	1 pole wi th 1 doubl e crossarm	7. 2132 1. 1134	JOB CONDUCTOR
GT-365	1 pole wi th 2 doubl e crossarms	9. 4970 1. 1134	JOB CONDUCTOR

150 CHAPTER	SERVI CE/DI STRI BUTI ON - POLES	51 REVI SI ON PAGE	
REF.	TASK DESCRI PTI ON	UNI T Nouns	UNI T
	<u>Non-free Standing Poles</u>		
	<u>Anchor Guys</u>		
GT-380	Install	. 7056	GUY
GT-381	Install with rods	2. 9500	GUY
GT-390	Remove with rods	. 8415	GUY
GT-395	Remove/reinstall	1. 0411	GUY
GT-396	Remove/reinstall with rods	3. 7914	GUY
	<u>Pole or Arm Guys</u>		
GT-382	Install	1. 0618	POLE
GT-391	Remove	. 6782	POLE
GT-397	Remove/reinstall	1. 7400	GUY
	<u>Push Brace (install)</u>		
GT-385	Hand excavate	. 2034 3. 8473	JOB POLE
GT-386	Mechanically excavate	. 2034 2. 7155	JOB POLE
GT-393	Remove (hand excavation)	. 2034 3. 2825	JOB POLE
GT-399	Remove/reinstall (hand excavation)	. 4069 7. 1298	JOB UNI T
	<u>Stub Pole (install)</u>		
GT-383	Hand excavate	. 2034 8. 5291	JOB POLE
GT-384	Mechanically excavate	1. 4257 4. 6177	JOB POLE
GT-392	Remove (hand excavation)	. 2034 5. 1050	JOB POLE
GT-389	Remove with guys	2. 0294 3. 4406	JOB POLE
GT-398	Remove/reinstall (hand excavation)	5. 3084 8. 7325	JOB POLE

160 CHAPTER	SERVI CE/DI STRI BUTI ON - SWI TCH GEAR	REVI SI ON	53 PAGE
REP.	TASK DESCRI PTI ON	UNI T HOURS	UNI T
	<u>SWI TCHGEAR</u> (ci rcui t breaker)		
	<u>Expl osi on-Proof/Water or Dust-Ti ght</u>		
	<u>Instal l to concrete</u>		
GT-530	8awg or smaller	. 4273 . 0378	JOB WI RE
GT-531	6awg	. 4738 . 0661	JOB WI RE
GT-532	4awg-2/0	. 4766 . 0862	JOB WI RE
	<u>Instal l to steel</u>		
GT-527	8awg or smaller	. 8002 . 0378	JOB WI RE
GT-528	6awg	. 8468 . 6613	JOB WI RE
GT-529	4awg-2/0	. 8495 . 0862	JOB WI RE
	<u>Instal l to wood</u>		
GT-524	8awg or smaller	. 2931 . 0378	JOB WI RE
GT-525	6awg	. 3396 . 0661	JOB WI RE
GT-526	4awg-2/0	. 3423 . 0862	JOB WI RE

160 CHAPTER	SERVICE/DISTRIBUTION - SWITCH GEAR	REVISION	54 PAGE
REP.	TASK DESCRIPTION	UNIT HOURS	UNIT
GT-550	<u>SWITCHGEAR (safety switch)</u> <u>Fusible</u> <u>Install to concrete</u> 8awg or smaller	. 2916 . 0400 . 0092	JOB WI RE SWI TCH
GT-551	6awg-2/0	. 2916 . 0683 . 0092	JOB WI RE SWI TCH
GT-547	<u>Install to steel</u> 8awg or smaller	. 6645 . 0400 . 0092	JOB WI RE SWI TCH
GT-548	5awg-2/0	. 6645 . 0683 . 0092	JOB WI RE SWI TCH
GT-544	<u>Install to wood</u> 8awg or smaller	. 1573 . 0400 . 0992	JOB WI RE SWI TCH
GT-545	6awg	. 1573 . 0683 . 0092	JOB WI RE SWI TCH
GT-546	4awg-2/0	. 1601 . 0884 . 0092	JOB WI RE SWI TCH

160 CHAPTER	SERVICE/DISTRIBUTION - SWITCH GEAR	REVISION	55 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
GT-564	<u>SWITCHGEAR</u> (circuit breaker) <u>Explosion-Proof/Water or Dust-Tight</u> <u>Remove from concrete/wood</u> 8awg or smaller	.2550 .0208	JOB WI RE
GT-565	6awg or larger <u>Remove from steel</u>	.3076 .0442	JOB WI RE
GT-566	8awg or smaller	.3791 .0208	JOB WI RE
GT-567	6awg or larger	.4317 .0442	JOB WI RE
GT-568	<u>SWITCHGEAR</u> (safety switch) <u>Fusible</u> <u>Remove from concrete/wood</u> 8awg or smaller	.0984 .0208	JOB WI RE
GT-569	6awg or larger <u>Remove from steel</u>	.1159 .0298	JOB WI RE
GT-570	8awg or smaller	.2225 .0208	JOB WI RE
GT-571	6awg or larger	.2400 .0298	JOB WI RE

SERVICE/DISTRIBUTION - SWITCH GEAR

EXPLANATION AND SCOPE OF STANDARDS

To install circuit breakers and safety switches on a wood surface the electrician drills mounting holes and installs the casing to the wood surface with wood screws. On concrete surfaces expansion plugs or shields are used. For mounting on a steel column, mounting brackets are fabricated and installed to the column with nuts and bolts. #8 and smaller wires are connected directly while wires larger than #8 have solderless screw type lugs installed to each wire. Time is allowed for unpacking units, installing to mounted casings, all electrical connections and an operational test of the unit. Gaskets are installed on the covers of explosion proof units.

To remove circuit breakers and switches, power to the unit is secured and covers, wiring, casing and mounting hardware and clamps are removed.

6. JOB PHASED DESCRIPTION Drill steel column and mount three double throw non-fusible safety switches in utility room.

REFERENCE 7	TASK DESCRIPTION 8	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS 1.	OCCUR-RENCE b.	CRAFT TIME c.	
GT-539	Install and connect non-fusible safety switch job	.6602	1	.66	
	to steel column wire	.0661	6	.40	
	switch	.0137	3	.04	
		TOTALS (Craft & Estimated Time)		1.10	

160 CHAPTER	SERVICE/DISTRIBUTION - SWITCH GEAR	REVISION	57 PAGE
REF.	TASK DESCRIPTION	UNIT Nouns	UNIT
GT-541	<u>Non-Fusible (safety switch)</u> <u>Install to concrete</u> 8awg or smaller	. 2872 . 0378 . 0092	JOB WI RE SWI TCH
GT-542	6awg-2/0 <u>Install to steel</u>	. 2872 . 0661 . 0092	JOB WI RE SWI TCH
GT-538	8awg or smaller	. 6602 . 0378 . 0092	JOB WI RE SWI TCH
GT-539	6awg-2/0 <u>Install to wood</u>	. 6602 . 0661 . 0092	JOB WI RE SWI TCH
GT-535	8awg or smaller	. 1530 . 0378 . 0092	JOB WI RE SWI TCH
GT-536	6awg	. 1530 . 0661 . 0092	JOB WI RE SWI TCH
GT-537	4awg-2/0	. 1558 . 0862 . 0092	JOB WI RE SWI TCH
GT-568	<u>Non-Fusible (safety switch)</u> <u>Remove from concrete/wood</u> 8awg or smaller	. 0984 . 0208	JOB WI RE
GT-569	6awg or larger	. 1159 . 0298	JOB WI RE
GT-570	<u>Remove from steel</u> 8awg or smaller	. 2224 . 0208	JOB WI RE
GT-571	6awg or larger	. 2400 . 0298	JOB WI RE

160 CHAPTER	SERVICE DISTRIBUTION - SNITCH GEAR	REVISION	58 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>Industrial Line</u> (circuit breaker)		
	<u>Install</u>		
	<u>To concrete</u>		
GT-521	8awg or smaller	.3600 .0378	JOB WI RE
GT-522	6awg	.3600 .0661	JOB WI RE
GT-523	4awg-2/0	.3628 .0862	JOB WI RE
	<u>To steel</u>		
GT-518	8awg or smaller	.7330 .0378	JOB WI RE
GT-519	6awg	.7330 .0661	JOB WI RE
GT-520	4awg-2/0	.7358 .0862	JOB WI RE
	<u>To wood</u>		
GT-515	8awg or smaller	.2258 .0378	JOB WI RE
GT-516	6awg	.2258 .0661	JOB WI RE
GT-517	4awg-2/0	.2285 .0862	JOB WI RE

160 CHAPTER	SERVICE/DISTRIBUTION - SWITCH GEAR		REVISION	59 PAGE
REF.	TASK DESCRIPTION		UNIT HOURS	UNIT
	<u>Industrial Line (circuit breaker)</u>			
	<u>Remove</u>			
	<u>From concrete/wood</u>			
GT-560	8awg or smaller		. 2024 . 0208	JOB WI RE
GT-561	6awg or larger		. 2199 . 0442	JOB WI RE
	<u>From steel</u>			
GT-562	8awg or smaller		. 3264 . 0208	JOB WI RE
GT-563	6awg or smaller		. 3440 . 0442	JOB WI RE

SERVICE/DISTRIBUTION - TRANSFORMERS

EXPLANATION AND SCOPE OF STANDARDS

These tasks cover all work required to:

- A. Install a new transformer on a pole.
- B. Replace an old transformer with a new one.
- C. Move an existing transformer from an old pole to an adjacent new pole.

Three electricians are required whether using the bucket truck or a truck mounted hoist and pole climbers. For new installations holes are drilled in the pole while it is on the ground. Bolts are installed in the mounting holes and the transformer is hoisted into place. It is positioned on the pole by climbers or from the bucket truck. Tasks include time to turn cut-out switch off and on with extension hook and time to disconnect and install conductors and associated wiring except where noted otherwise.

Preventative maintenance inspections cover energized transformers in buildings or mounted in outside enclosures.

6. JOB PHASED DESCRIPTION	Install new 50 KVA transformer on pole.
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REFERENCE	TASK DESCRIPTION	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME
		UNIT HOURS	OCCURRENCE	CRAFT TIME	
		a.	b.	c.	
7	8				10
GT-631	Install transformer and wiring	7.0701	1	7.07	
GT-420	Climb pole (1 man)	.34375	1	.34	
GT-421	Use bucket truck (2 men)	.21896	2	.44	
PWA-5	Transformer to and from truck	.11	1	.11	
TOTALS (Craft & Estimated Time)				7.96	

170 CHAPTER	SERVICE/DISTRIBUTION - TRANSFORMERS	REVISION	61 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>TRANSFORMERS</u>		
	<u>3 to 15 KVA transformer</u>		
GT-439	Install or Remove - connections not included	1.0073	UNIT
GT-433	Install or remove bank of three Transformers	1.0799	BANK
	<u>Wiring Connectors</u>		
GT-410	Install	.7459 .8043	JOB TIE
GT-411	Remove	.4229 .0780	JOB TIE
	<u>37-1 /2 to 50 KVA transformer</u>		
GT-631	Install (including connections)	7.0701	JOB
GT-632	Replace (including connections)	5.3893	JOB
	<u>Preventive Maintenance Inspection</u>		
GT-506	Large (over 600 watts)	.2958	JOB
GT-507	Small (under 600 watts)	.2148	JOB

180 CHAPTER	SERVICE/DISTRIBUTION-SUBSTATIONS	REVISION	62 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
GT-651	<u>BUSBARS AND BARRIER BOARDS</u> Replace	.0531 1.0243 .0707	JOB BUS BAR BOARD

II. TASKS

GT-1

CHECK AND REPAIR PAGING AMPLIFIER - INCLUDES CHECKING FIVE TUBES AND TEST TEN PARTS IN SHOP.

NO WORK UNIT DESCRIPTION

- 1 CHECK TUBES, REINSTALL NEW AS NEEDED.
xxx
- 2 REMOVE FROM CASE AND REINSTALL.
xxx
- 3 TEST PARTS.
xxx
- 4 REMOVE AND REINSTALL SMALL SIZE PART .
- 5 REMOVE AND REINSTALL MEDIUM SIZE PART .
- 6 CLEAN CHASSIS .
- 7 MATERIAL HANDLING.

GT-1 = 1.16071 HRS PER JOB

GT-2

CHECK AND REPAIR 10 WATT AMPLIFIER - FIVE TUBE - INCLUDES TESTING TUBES AND INSTALLING ONE NEW TUBE , REMOVE OLD AND INSTALL TWO NEW SMALL PARTS, TEST THREE PARTS, CLEAN AMPLIFIERS IN SHOP.

NO WORK UNIT DESCRIPTION

- 1 CHECK TUBES, REINSTALL NEW AS NEEDED.
- 2 REMOVE FROM CASE AND RETURN .
- 3 CLEAN AMPLIFIER.
- 4 TEST PARTS.
- 5 REMOVE AND REINSTALL SMALL ELECTRICAL PART .
- 6 REMOVE AND REINSTALL MEDIUM ELECTRICAL PART.
- 7 REMOVE AND REINSTALL LARGE ELECTRICAL PART.
- 8 MATERIAL HANDLING.

GT-2 = 2.22631 HRS PER JOB

GT-3

CHECK AND REPAIR 50 WATT AMPLIFIER - INCLUDES TESTING TUBES AND CONDENSERS, TEST THIRTY PARTS, REMOVE OLD AND REINSTALL THREE NEW PARTS, AND CLEAN AMPLIFIER IN SHOP.

NO WORK UNIT DESCRIPTION

- 1 CHECK TUBES, REINSTALL NEW AS NECESSARY.
- 2 CHECK PLUG-IN CONDENSERS, REINSTALL NEW AS NECESSARY .
- 3 CLEAN AMPLIFIER.
- 4 TEST PARTS.
- 5 REMOVE AND REINSTALL SMALL ELECTRICAL PART.
- 6 REMOVE AND REINSTALL MEDIUM ELECTRICAL PART.
- 7 REMOVE AND REINSTALL LARGE ELECTRICAL PART.
- 8 MATERIAL HANDLING.

GT-3 = 2.81271 HRS PER JOB

GT-4

REMOVE OLD AND INSTALL NEW MOBILE ANTENNA ROD - INCLUDES REMOVE AND REINSTALL TWO RETAINER NUTS.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL RETAINING NUTS.
- 2 REMOVE AND INSTALL ANTENNA-BASE PARTS.
- 3 MATERIAL HANDLING.

GT-4 = .12021 HRS PER JOB

GT-5

REMOVE OLD AND INSTALL TWO NEW MOBILE ANTENNA MOUNTING BASES - INCLUDING REMOVE AND REINSTALL SEVEN NUTS EACH .

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL ASSEMBLY NUT.
- 2 REMOVE AND REINSTALL BASE PARTS.
- 3 MATERIAL HANDLING .

GT-5 = .38129 HRS PER JOB

GT-6

CHECK AND REPAIR DICTAPHONE - INCLUDES REMOVING COVER PLATES, TEST TWO PARTS, CLEAN CHASSIS, AND CLEAN FIVE SWITCHES ON JOB SITE.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL COVER PLATE .
- 2 CLEAN CHASSIS .
- 3 TEST PARTS .
- 4 CLEAN SWITCHES .

GT-6 = .19995 HRS PER JOB

GT-7

CHECK AND REPAIR TAPE RECORDER - INCLUDES CHECKING SIX TUBES, TEST SIX PARTS, INSTALLING ONE NEW TUBE, REMOVE AND INSTALL FOUR NEW PARTS, CLEAN AND LUBRICATE (OIL) AS REQUIRED IN SHOP.

NO WORK UNIT DESCRIPTION

- 1 CHECK TUBES, REINSTALL NEW AS NEEDED .
- 2 REMOVE FROM CASE AND REINSTALL .
- 3 TEST PARTS.
- 4 REMOVE AND REINSTALL MEDIUM SIZE ELECTRICAL PART.
- 5 CLEAN SMALL PART .
- 6 REMOVE AND REINSTALL MECHANICAL PART .
- 7 OIL PART.
- 8 CHECK OPERATION AFTER REPAIR.

GT-7 = 1.04001 HRS PER JOB

GT-8

INSTALL PORTABLE SHIP-TO-SHORE TELEPHONE ON SHIP QUARTERDECK AND PLUG IN AT PIER OUTLET.

NO WORK UNIT DESCRIPTION

- == =====
- 1 INSTALL SHIP-TO-SHORE TELEPHONE ON QUARTERDECK.
- 2 MATERIAL HANDLING.

GT-8 = .24056 HRS PER JOB

GT-9

REMOVE PORTABLE SHIP-TO-SHORE TELEPHONE FROM SHIP QUARTERDECK AND DISCONNECT AT OUTLET ON PIER.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE SHIP-TO-SHORE TELEPHONE FROM QUARTERDECK.
- 2 MATERIAL HANDLING.

GT-9 = .16378 HRS PER JOB

GT-10

REMOVE OLD AND INSTALL NEW OCTAL TUBE SOCKET - INCLUDES REMOVE , CHECK, AND PUT TUBE BACK, REMOVE 2 RIVETS AND INSTALL 2 NUTS AND BOLTS TO SOCKET, REPLACE WIRES TO LUGS IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE TUBE FROM SOCKET, TEST, AND PUT BACK.
- 2 REMOVE AND REINSTALL MEDIUM PART.

GT-10 = .35220 HRS PER JOB

GT-11

CHECK AND REPAIR RECORD TURNTABLE - INCLUDES REMOVING AND REINSTALLING IN CABINET, TESTING TWO PARTS, REMOVE AND INSTALL TWO PARTS, OIL BEARINGS AND CLEAN UNIT IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE FROM CABINET AND REINSTALL.
- 2 TEST PARTS.
- 3 REMOVE AND REINSTALL MECHANICAL PARTS.
- 4 CLEAN UNIT.
- 5 OIL BEARINGS.
- 6 CHECK OPERATION AFTER REPAIR.
- 7 MATERIAL HANDLING.

GT-11 = .62327 HRS PER JOB

GT-12

CHECK AND REPAIR INTERCOM - INCLUDES CHECKING SIX TUBES, TEST TEN PARTS, REMOVE AND INSTALL ONE NEW SMALL PART, CLEAN CHASSIS AND SEVEN SWITCHES IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 CHECK TUBES, REINSTALL NEW AS NEEDED. REMOVE FROM CASE AND REINSTALL .
- 2 TEST PARTS.
- 4 REMOVE AND REINSTALL SMALL PART.
- 5 REMOVE AND REINSTALL MEDIUM SIZE PART .
- 6 CLEAN CHASSIS .
- 7 CLEAN SWITCHES.
- 8 MATERIAL HANDLING.

GT-12 = 1.12426 HRS PER JOB

GT-13

CHECK AND REPAIR MOVIE PROJECTOR (SOUND) - INCLUDES CHECKING FOUR TUBES, INSTALLING ONE NEW TUBE, REMOVING OLD AND INSTALLING FOUR NEW PARTS, TEST TEN PARTS, OIL BEARINGS AND CLEAN IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 CHECK TUBES, REINSTALL NEW AS NECESSARY.
- 2 REMOVE FROM CASE AND REINSTALL .
- 3 TEST PARTS.
- 4 REMOVE AND REINSTALL SMALL ELECTRICAL PART.
- 5 REMOVE AND REINSTALL MEDIUM SIZE ELECTRICAL PART.
- 6 REMOVE AND REINSTALL MECHANICAL PART.
- 7 CLEAN MEDIUM PART.
- 8 OIL BEARINGS.
- 9 CHECK OPERATION AFTER REPAIR.
- 10 MATERIAL HANDLING.

GT-13 = 1.42810 HRS PER JOB

GT-14

CHECK AND REPAIR ELECTRONIC EQUIPMENT - INCLUDES CHECKING 16 TUBES OR PLUG-IN CONDENSERS, TEST 30 PARTS, REMOVE AND REINSTALL TWO SMALL, TWO MEDIUM AND TWO LARGE PARTS, CLEAN EQUIPMENT IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 CHECK TUBES OR PLUG-IN CONDENSERS, REINSTALL NEW AS NEEDED.
- 2 TEST PARTS.
- 3 CLEAN EQUIPMENT.
- 4 REMOVE AND REINSTALL SMALL ELECTRICAL PART.
- 5 REMOVE AND REINSTALL MEDIUM ELECTRICAL PART.
- 6 REMOVE AND REINSTALL LARGE ELECTRICAL PART.

GT-14 = 3.90705 HRS PER JOB

GT-15

CHECK AND REPAIR ELECTRONIC EQUIPMENT - INCLUDES CHECKING EIGHT TUBES OR PLUG-IN CONDENSERS, TEST PARTS, REMOVE AND INSTALL ONE SMALL, ONE MEDIUM, ONE LARGE PART, AND CLEAN EQUIPMENT IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 CHECK TUBES OR PLUG-IN CONDENSERS, REINSTALL NEW AS NEEDED.
 - 2 TEST PARTS .
 - 3 CLEAN LARGE PARTS.
 - 4 REMOVE AND REINSTALL SMALL ELECTRICAL PART.
 - 5 REMOVE AND REINSTALL MEDIUM SIZE ELECTRICAL PART.
 - 6 REMOVE AND REINSTALL LARGE ELECTRICAL PART.
 - 7 MATERIAL HANDLING.

GT-15 = 2.09071 HRS PER JOB

GT-16

CHECK AND MAKE MINOR REPAIRS TO ELECTRONIC EQUIPMENT - INCLUDES CHECKING FOUR TUBES OR PLUG-IN CONDENSERS, MAKE FOUR TESTS, AND REINSTALL NEW PARTS AS REWIRED ON JOB SITE.

NO WORK UNIT DESCRIPTION

- == =====
- 1 CHECK TUBES OR PLUG-IN CONDENSERS - REINSTALL NEW AS NEEDED.
 - 2 TEST PARTS.
 - 3 REMOVE AND INSTALL SMALL PART .

GT-16 = .31440 HRS PER JOB

GT-17

CHECK AND REPAIR LINE TRANSFORMER (SPEAKER) - INCLUDES TESTING TWO PARTS AND REMOVE AND INSTALL ONE MEDIUM PART IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE AND REINSTALL MEDIUM PART.
 - 2 TEST PARTS.
 - 3 MATERIAL HANDLING.

GT-17 = .37753 HRS PER JOB

GT-18

INSTALL TWO SPEAKERS ON WOOD SURFACE TO EXTEND SOUND SYSTEM, INCLUDES RUN 200 FEET OF TWO CONDUCTOR CABLES, CONNECT HIRES TO SPEAKERS ON JOB SITE.

NO WORK UNIT DESCRIPTION

- == =====
- 1 INSTALL EIGHT SCREWS - INCLUDES DRILLING.
 - 2 CONNECT WIRE TO TWO SPEAKERS AND TWO JUNCTION BOXES .
 - 3 RUN 100 FT. OF CABLE TO EACH SPEAKER, NO LADDER.

GT-18 = .80880 HRS PER JOB

GT-19

INSTALL RELAY AND PRESS-TO-TALK BUTTON ON PAGING AMPLIFIER - INCLUDES MARK, DRILL HOLE IN METAL, INSTALL SWITCH, REMOVE AND REINSTALL MEDIUM SIZE PART IN SHOP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE AND INSTALL MEDIUM SIZE PART .
 - 2 MEASURE , MARK, PUNCH AND POWER DRILL HOLE IN UP TO 3/16" THICK METAL, (ONE HOLE).
 - 3 INSTALL SWITCH.
 - 4 TEST PARTS.
 - 5 MATERIAL HANDLING.

GT-19 = .93547 HRS PER JOB

GT-20

REMOVE OLD AND INSTALL NEW CORD IN SOCKET TYPE FLOOR LAMP.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE AND REPLACE BULB .
 - 2 LOOSEN AND REMOVE STEM NUT IN LAMP BASE.
 - 3 REMOVE REFLECTOR - LOOSEN THREE SET SCREWS IN REFLECTOR BASE .
 - 4 CUT CORD AT BASE OF LAMP AND DISENGAGE REFLECTOR BASE FROM STEM.
 - 5 REMOVE SOCKET ASSEMBLY FROM REFLECTOR BASE - LOOSEN ONE SET SCREW IN SOCKET CAP.
 - 6 DISASSEMBLE SOCKET SHELL FROM CAP.
 - 7 REMOVE SHELL FROM SOCKET .
 - 8 DISCONNECT CORD LEAD WIRES FROM TWO TERMINAL CONNECTIONS IN SOCKET.
 - 9 PULL OLD AND NEW CORD THROUGH FIVE FOOT STEM.
 - 10 CUT , STRIP AND ATTACH CORD LEAD WIRES TO SOCKET TERMINALS.
 - 11 ASSEMBLE SHELL TO SOCKET.
 - 12 ASSEMBLE SHELL AND SOCKET TO CAP.
 - 13 FASTEN REFLECTOR BASE TO SOCKET ASSEMBLY - TIGHTEN ONE SET SCREW.
 - 14 ENGAGE REFLECTOR BASE TO STEM, PULL CORD TAUT AND TIE KNOT UNDER BASE .
 - 15 INSTALL AND TIGHTEN STEM NUT IN BASE.
 - 16 DISCONNECT OLD CORD LEAD WIRES FROM TWO TERMINAL CONNECTIONS IN PLUG.
 - 17 CUT, STRIP, LOOP AND ATTACH CORD LEAD WIRES TO PLUG TERMINALS .
 - 18 INSTALL REFLECTOR TO REFLECTOR BASE - TIGHTEN THREE SET SCREWS IN BASE.
 - 19 PLUG IN AND CHECK OPERATION BY SWITCHING LAMP ON AND OFF.

GT-20 = .49874 HRS PER JOB

GT-21

REMOVE DISCONNECTED STROMBERG MODEL 14 OR 15 TIME CLOCK FROM WALL; DISASSEMBLE , INSPECT, CLEAN, REASSEMBLE , ADJUST AND REINSTALL TO WALL - TRAVEL TIME TO RETURN UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE CLOCK FROM HALL (FOUR SCREW) .
- 2 DISASSEMBLE, INSPECT , CLEAN, REASSEMBLE AND ADJUST STROMBERG, NO. 14 OR 15 TIME CLOCK.
- 3 MATERIAL HANDLING.

GT-21 = .54432 HRS PER JOB

GT-22

DISCONNECT , REMOVE, DISASSEMBLE, INSPECT, CLEAN, REASSEMBLE , ADJUST, REINSTALL AND CONNECT I.B.M. AUTOMATIC MODEL 8500-5 OR SEMI -AUTOMATIC MODEL 8900-5, TIME CLOCK - TRAVEL TIME TO RETURN CLOCK NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 TURN CIRCUIT WITCH OFF AND ON.
- 2 REMOVE COVER PLATE TO OBTAIN ACCESS TO MOUNTING SCREWS AND LATER REINSTALL .
- 3 REMOVE CONCEALED BOX COVER PLATE (TWO SCREWS) , LATER REINSTALL.
- 4 DISCONNECT TWO, 2-WIRE SPLICES CONNECTED BY PLASTIC WIRE CONNECTORS.
- 5 LOOSEN CABLE BOX CONNECTOR SCREW AT CONCEALED BOX END OF SUPPLY CORD (TWO SCREWS) AND REMOVE CORD LEADS FROM BOX, LATER REINSTALL.
- 6 REMOVE UNIT FROM WALL (FOUR SCREWS) AND LATER REINSTALL.
- 7 DISASSEMBLE , INSPECT , CLEAN, REASSEMBLE AND ADJUST IBM AUTOMATIC, NO. 8500-5 OR SEMI-AUTOMATIC NO. 8900-5, CLOCK.
- 8 SPLICE TWO, 2-WIRE LEADS USING PLASTIC WIRE CONNECTORS.
- 9 CHECK OPERATION.
- 10 MATERIAL HANDLING.

GT-22 = 2.22088 HRS PER JOB

GT-23

DISCONNECT, REMOVE , MINOR OVERHAUL, PAINT MOTOR HOUSING, REINSTALL AND CONNECT UNIVERSAL OR SPLIT PHASE -UP TO 1/4 HP UNITS -TRAVEL TIME TO RETURN UNIT NOT INCLUDED .

NO WORK UNIT DESCRIPTION

- == =====
- 1 SHUT OFF POWER AND LATER TURN ON.
- 2 REMOVE BOX COVER PLATE ON MOTOR AND LATER REINSTALL (TWO SCREWS) .
- 3 DISCONNECT 2-WIRE CABLE AND GROUND WIRE FROM TERMINALS IN BOX.
- 4 LOOSEN CABLE BOX CONNECTOR SCREWS AT MOTOR END OF CABLE (TWO SCREWS)AND REMOVE CABLE LEADS FROM BOX LATER REINSTALL.
- 5 TAPE CABLE LEADS (TWO WIRES) AND LATER REMOVE TAPE AND INSERT CABLE IN BOX KNOCKOUT HOLE.
- 6 REMOVE MOUNTING BOLTS, NUTS OR SET SCREWS AND LATER REINSTALL - FOUR NUTS OR SCREWS .
- 7 OVERHAUL UNIVERSAL OR SPLIT PHASE MOTOR, LESS THAN 1/4 HP.
- 8 METAL SURFACE PREPARATION PRIOR TO PAINTING (ONE SQ. FT.).
- 9 PAINT METAL SURFACE (ONE SQ. FT.).
- 10 CONNECT CABLE LEADS (THREE WIRES INCL . GROUND) TO MOTOR BOX TERMINALS.
- 11 ADJUST MOTOR POSITION .
- 12 MATERIAL HANDLING.

GT-23 = 1.07351 HRS PER JOB

GT-24

DISCONNECT, REMOVE, MINOR OVERHAUL, PAINT MOTOR HOUSING, REINSTALL AND CONNECT -UNIVERSAL OR SPLIT PHASE - 1/4 TO 5 HP, 600 TO 3600 RPM, UNDER 50 LB. UNITS - TRAVEL TIME TO RETURN UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 SHUT OFF POWER AND LATER TURN ON.
- 2 REMOVE BOX COVER PLATE ON MOTOR AND LATER REINSTALL (TWO SCREWS) .
- 3 DISCONNECT 2-WIRE CABLE AND GROUND WIRE FROM TERMINALS IN BOX.
- 4 LOOSEN CABLE BOX CONNECTOR SCREWS AT MOTOR END OF CABLE LEADS FROM BOX, LATER REINSTALL.
- 5 TAPE CABLE LEADS (TWO WIRES) AND LATER REMOVE TAPE AND INSERT CABLE IN BOX KNOCKOUT HOLE.
- 6 REMOVE MOUNTING BOLTS, NUTS OR SET SCREWS AND LATER REINSTALL.
- 7 OVERHAUL UNIVERSAL OR SPLIT PHASE MOTOR, 1/4 TO 5 HP; 600 TO 3600 RPM; UNDER 50 LBS. IN WEIGHT .
- 8 METAL SURFACE PREPARATION PRIOR TO PAINTING (THREE SQ. FT.)
- 9 PAINT METAL SURFACE (THREE SQ. FT.).
- 10 CONNECT CABLE LEADS (THREE WIRES INCL. GROUND) TO MOTOR BOX TERMINALS .
- 11 ADJUST MOTOR POSIT ION .
- 12 MATERIAL HANDLING.

GT-24 = 1.47135 HRS PER JOB

GT-25

DISCONNECT , REMOVE, MI NOR OVERHAUL, PAINT MOTOR HOUSING, INSTALL AND CONNECT - INDUCTION-REPULSION TYPE - 3/4 TO 10 HP, ALL SPEEDS - TRAVEL TIME TO RETURN UNIT NOT INCLUDED .

NO WORK UNIT DESCRIPTION

- == =====
- 1 SHUT OFF POWER AND LATER TURN ON.
- 2 REMOVE BOX COVER PLATE ON MOTOR AND LATER REINSTALL (TWO SCREWS).
- 3 DISCONNECT 3 CONDUCTOR ENDS AND GROUND WIRE FROM TERMINALS IN BOX.
- 4 LOOSEN CABLE BOX CONNECTOR SCREWS AT MOTOR END OF FLEXIBLE CABLE (TWO SCREW) AND REMOVE CONDUCTOR ENDS FROM BOX, LATER REINSTALL.
- 5 TAPE CONDUCTOR ENDS (THREE WIRES) AND LATER REMOVE TAPE AND INSERT CONDUCTOR ENDS IN BOX KNOCKOUT HOLE.
- 6 REMOVE MOUNTING BOLTS, NUTS OR SET SCREWS AND LATER INSTALL .
- 7 OVERHAUL INDUCTION-REPULSION TYPE, 3/4 TO 10 HP, ALL SPEEDS, UNIT.
- 8 METAL SURFACE PREPARATION PRIOR TO PAINTING (SIX SQ. FT.).
- 9 PAINT METAL SURFACE (SIX SQ. FT.).
- 10 SEPARATE , FORM, ALIGN ENDS AND CONNECT 3 CONDUCTORS TO TERMINALS IN BOX.
- 11 ADJUST MOTOR POSITION.
- 12 MATERIAL HANDLING.

GT-25 = 2.69442 HRS PER JOB

GT-26

REMOVE AND DISCONNECT OLD THERMOSTAT CONTROL FROM WALL, INSTALL AND CONNECT REPLACEMENT UNIT.

NO WORK UNIT DESCRIPTION

- == =====
- 1 UNPACK UNIT .
- 2 TURN CONTROL WITCH ON AND OFF.
- 3 REMOVE COVER PLATES OLD AND NEW UNITS (ONE SCREW) .
- 4 WALK TO EQUIPMENT POWER SOURCE CONTROLS AND RETURN - AVG. 20 PACES EACH WAY.
- 5 DISCONNECT LEADS FROM TERMINALS (THREE WIRES).
- 6 REMOVE OLD THERMOSTAT BASE AND INSTALL REPLACEMENT UNIT.
- 7 CUT AND FORM LEADS, INSERT IN BASE HOLE AND CONNECT TO TERMINALS (THREE WIRES).
- 8 SET THERMOSTAT ADJUSTMENT .
- 9 INSTALL NEW COVER PLATE .
- 10 CHECK OPERATION.

GT-26 = .38550 HRS PER JOB

GT-27

INSTALL AND CONNECT THERMOSTAT CONTROL ON PLASTER OR WOO SURFACE - INSTALLATION OF CONTROL CIRCUIT WIRING NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 UNPACK CONTROL .
- 2 REMOVE COVER PLATE (ONE SCREW) .
- 3 FASTEN BASE TO WOOD SURFACE (TWO SCREWS).
- 4 CUT AND FORM LEADS, INSERT IN BASE HOLE AND CONNECT TO TERMINALS (THREE HIRES).
- 5 SET THERMOSTAT ADJUSTMENT .
- 6 INSTALL COVER PLATE (1 SCREW) .
- 7 WALK TO EQUIPMENT POWER SOURCE CONTROLS AND RETURN - AVG. 20 PACES EACH WAY .
- 8 TURN CONTROL WITCH ON AND OFF.
- 9 CHECK OPERATION .

GT-27 = .29752 HRS PER JOB

GT -28

INSTALL AND CONNECT THERMOSTAT CONTROL ON CONCRETE SURFACE - INSTALLATION OF CONTROL CIRCUIT WIRING NOT INCLUDED .

NO WORK UNIT DESCRIPTION

- == =====
- 1 UNPACK CONTROL.
- 2 INSTALL AND REMOVE COVER PLATE (ONE SCREW) .
- 3 FASTEN BASE TO CONCRETE SURFACE (TWO SCREWS).
- 4 CUT AND FORM LEADS, INSERT IN BASE HOLE AND CONNECT TO TERMINALS.
- 5 SET THERMOSTAT ADJUSTMENT .
- 6 WALK TO EQUIPMENT POWER SOURCE CONTROLS AND RETURN - AVG. 20 PACES EACH WAY.
- 7 TURN CONTROL WITCH ON AND OFF.
- 8 CHECK OPERATION .

GT-28 = .37828 HRS PER JOB

GT - 29

DISCONNECT AND REMOVE ONE (1) LENGTH OF FIXED THREE CONDUCTOR CABLE WITH GROUND WIRE FROM 220V OPERATED EQUIPMENT AND SUPPLY BOX, INSTALL AND CONNECT SIMILAR REPLACEMENT CABLE .

NO WORK UNIT DESCRIPTION

- == =====
- 1 SWITCH POWER OFF AND LATER ON.
- 2 MOVE UNIT FOR ACCESSIBILITY AND REPOSITION AFTER CABLE REPLACEMENT .
- 3 REMOVE BOX COVER PLATES ON EQUIPMENT AND SUPPLY ENDS OF CABLE (TWO SCREWS EACH BOX).
- 4 DISCONNECT 3-WIRE CABLE AND GROUND WIRE FROM EQUIPMENT UNIT AND SUPPLY BOX ENDS.
- 5 LOOSEN CABLE SCREW AT BOTH ENDS OF CABLE AND REMOVE BOTH ENDS OF CABLE.
- 6 INSERT CABLE ENDS IN BOX CONNECTORS AND TIGHTEN CONNECTOR SCREWS.
- 7 CUT, FORM AND CONNECT 3-WIRE CABLE AND GROUND WIRE AT BOTH ENDS OF REPLACEMENT CABLE.
- 8 INSTALL BOX COVER PLATES TO UNIT AND SUPPLY ENDS.
- 9 CHECK OPERATION .

GT-29 = .38317 HRS PER JOB

GT-30

DISCONNECT EXISTING 220V RANGE, DRYER OR AIR CONDITIONER CONNECTED TO SERVICE BY A FIXED THREE CONDUCTOR CABLE WITH GROUND WIRE AND CONNECT REPLACEMENT UNIT - HANDLING AND UNCRATING OF UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 SWITCH POWER OFF AND LATER ON.
- 2 MOVE UNIT FOR ACCESSIBILITY AND POSITION REPLACEMENT UNIT.
- 3 REMOVE BOX COVER PLATE IN EXISTING UNIT (TWO SCREW).
- 4 DISCONNECT 3-WIRE CABLE AND GROUND WIRE FROM UNIT TERMINALS.
- 5 REMOVE CABLE CONNECTOR FROM BOX IN EXISTING UNIT AND PULL OUT CABLE.
- 6 REMOVE BOX COVER PLATE IN NEW UNIT (TWO SCREWS).
- 7 REMOVE KNOCKOUT PLUG IN BOX OF NEW UNIT.
- 8 POSITION, 3-WIRE CABLE WITH GROUND WIRE IN BOX KNOCKOUT HOLE AND ATTACH CABLE CONNECTOR .
- 9 CUT , FORM AND CONNECT, 3-WIRE CABLE LEADS AND GROUND WIRE TO BOX TERMINALS.
- 10 INSTALL BOX COVER PLATE TO OLD AND NEW UNITS.
- 11 LEVEL OR ADJUST POSITION OF UNIT.

GT-30 = .42180 HRS PER JOB

GT-31

CONNECT 220V RANGE, DRYER OR AIR CONDITIONER USING THREE CONDUCTOR CABLE WITH GROUND WIRE AND CONNECTED PLUG - HANDLING AND UNCRATING OF UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 SWITCH POWER OFF AND LATER ON.
- 2 MOVE UNIT FOR ACCESSIBILITY AND RETURN TO ORIGINAL LOCATION.
- 3 INSTALL AND REMOVE BOX COVER PLATE IN UNIT (TWO SCREWS) .
- 4 REMOVE KNOCKOUT PLUG IN BOX OR COVER PLATE OF UNIT
- 5 INSTALL CABLE CONNECTOR TO NON-METALLIC SHEATHED CABLE AND INSTALL CABLE WITH CONNECTOR TO BOX.
- 6 CUT, FORM AND CONNECT LEADS AND GROUND WIRE TO BOX TERMINALS.
- 7 LEVEL OR ADJUST POSITION OF UNIT.
- 8 CHECK OPERATION .

GT-31 = .35633 HRS PER JOB

GT-32

CONNECT 220V RANGE, DRYER OR AIR CONDITIONER TO SERVICE OUTLET BOX USING THREE CONDUCTOR NON-METALLIC CABLE WITH GROUND WIRE FIXED AT BOTH ENDS - HANDLING AND UNCRATING OF UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 SWITCH POWER OFF AND LATER ON.
- 2 MOVE UNIT FOR ACCESSIBILITY AND RETURN TO ORIGINAL LOCATION.
- 3 INSTALL AND REMOVE BOX COVER PLATE IN UNIT AND SERVICE OUTLET BOX (TWO SCREW EACH).
- 4 REMOVE KNOCKOUT PLUG IN BOX OR COVER PLATE OF UNIT AND SERVICE OUTLET BOX.
- 5 INSTALL CABLE CONNECTOR TO BOTH ENDS, OF LENGTH OF NON-METALLIC SHEATHED CABLE AND INSTALL CABLE WITH CONNECTOR TO BOX.
- 6 CUT, FORM AND CONNECT 3-WIRE CABLE AND GROUND WIRE TO TERMINALS IN EACH BOX.
- 7 LEVEL OR ADJUST POSITION OF UNIT.
- 8 CHECK OPERATION.

GT-32 = .43797 HRS PER JOB

GT-33

CONNECT 220V RANGE, DRYER OR AIR CONDITIONER USING SIX FOOT LENGTH OF FLEXIBLE METALLIC CONDUIT AND THREE(3) "PULLED IN" CONDUCTORS CONNECTED AT BOTH ENDS - HANDLING AND UNCRATING OF UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- =====
- 1 SWITCH POWER OFF AND LATER ON.
 - 2 MOVE UNIT FOR ACCESSIBILITY AND RETURN TO ORIGINAL LOCATION.
 - 3 INSTALL AND REMOVE BOX COVER PLATE IN UNIT AND SERVICE OUTLET BOX (TWO SCREWS EACH).
 - 4 REMOVE KNOCKOUT PLUG IN BOX OR COVER PLATE OF UNIT AND SERVICE OUTLET BOX.
 - 5 INSTALL CABLE CONNECT TO BOTH ENDS OF LENGTH OF FLEXIBLE CONDUIT AND INSTALL CONDUIT ENDS TO BOXES
 - 6 PULL THREE, NO. 12 WIRES THROUGH CONDUIT.
 - 7 CUT, FORM AND CONNECT BOTH ENDS OF THESE WIRES TO TERMINALS IN EACH BOX.
 - 8 LEVEL OR ADJUST POSITION OF UNIT.
 - 9 CHECK OPERATION.

GT-33 = .87040 HRS PER JOB

GT-34

DISCONNECT OVERHEAD UNIT HEATER TWO (2) WIRE POWER AND THREE (3) WIRE CONTROL CIRCUITS - REMOVAL OR UNIT HEATER NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- =====
- 1 SWITCH POWER OFF AND LATER ON.
 - 2 REMOVE AND REINSTALL COVER PLATE ON UNIT AND SUPPLY BOX (TWO SCREWS EACH).
4 SCREWS = 2 SCREWS X 2 BOXES.
2 PLATES FOR 2 BOXES.
REMOVE AND REINSTALL EACH BOX.
 - 3 DISCONNECT CONDUCTORS FROM TERMINALS IN UNIT HEATER BOX .
 - 4 CUT SPLICED LEADS IN SUPPLY BOX, TAPE ENDS AND PUSH BACK IN BOX .
2 WIRES.
 - 5 REMOVE CONDUIT CONNECTOR FROM UNIT HEATER AND SUPPLY BOXES , PULL OUT CONDUIT AND CONDUCTORS AND INSERT KNOCKOUT HOLE PLUGS.
 - 6 REMOVE RELAY BOX COVER PLATE ON UNIT (ONE SCREW) .
DISCONNECT 3-WIRE CABLE FROM THERMOSTAT CONTROL.
 - 8 INSTALL RELAY BOX COVER PLATE ON UNIT (ONE SCREW) .

GT-34 = .17338 HRS PER JOB

GT-35

CONNECT OVERHEAD UNIT HEATER, POWER AND CONTROL CIRCUITS INCLUDING INSTALLATION OF SIX FOOT LENGTHS OF FLEXIBLE METALLIC CONDUIT
INSTALLATION OF UNIT NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- =====
- 1 SWITCH POWER OFF AND LATER ON.
 - 2 INSTALL AND REMOVE COVER PLATE ON UNIT AND SUPPLY BOXES (TWO SCREWS EACH).
 - 3 REMOVE KNOCKOUT PLUG IN BOX OR COVER PLATE OF UNIT AND SUPPLY BOXES .
 - 4 INSTALL CABLE CONNECTOR TO BOTH ENDS OF LENGTH OF FLEXIBLE CONDUIT AND INSTALL CONDUIT ENDS TO BOXES
 - 5 PULL TWO, NO. 12 WIRES THROUGH CONDUIT.
 - 6 CUT, FORM, SPLICE AND INSULATE ONE END OF EACH WIRE IN SUPPLY BOX.
 - 7 CUT, FORM AND CONNECT ONE END OF EACH WIRE TO TERMINALS IN UNIT BOX.
 - 8 CHECK OPERATION.

GT-35 = .67197 HRS PER JOB

GT-36

INSTALL OR REMOVE CIRCUIT CONNECTION BETWEEN ITEM OF EQUIPMENT AND SUPPLY BOX CONSISTING OF THREE, NO. 8 OR SMALLER CONDUCTORS IN SIX FOOT LENGTH OF FLEXIBLE CONDUIT.

NO WORK UNIT DESCRIPTION

- =====
- SWITCH POWER OFF AND LATER ON.
 - 2 INSTALL AND REMOVE BOX COVER PLATES ON EQUIPMENT AND SUPPLY BOXES (TWO SCREW EACH).
4 SCREW FOR 2 BOXES.
2 COVER PLATES FOR 2 BOXES.
INSTALL AND REMOVE.
 - 3 INSTALL CABLE CONNECTOR TO BOTH ENDS OF LENGTH OF FLEXIBLE CONDUIT AND INSTALL CONDUIT TO BOXES.
 - 4 REMOVE KNOCKOUT PLUG IN BOX OR COVER PLATE OF EQUIPMENT AND SUPPLY BOXES.
2 KNOCKOUTS PER BOX.
 - 5 PULL THREE, NO. 12 HIRES THROUGH CONDUIT.
3 WIRES.
6 FEET OF WIRES PULLED.
 - 6 CUT, FORM AND CONNECT BOTH ENDS OF THREE WIRES TO TERMINALS IN EACH BOX.
6 WIRES.

GT-36 = .65895 HRS PER JOB

GT-37

INSTALL OR REMOVE CIRCUIT CONNECTION BETWEEN ITEM OF EQUIPMENT AND SUPPLY BOX CONSISTING OF THREE, NO. 2/0 OR SMALLER CONDUCTORS IN SIX FOOT LENGTH OF FLEXIBLE METALLIC CONDUIT.

NO WORK UNIT DESCRIPTION

- 1 SWITCH POWER OFF AND LATER ON.
- 2 INSTALL AND REMOVE BOX COVER PLATES ON EQUIPMENT AND SUPPLY BOXES (TWO SCREW EACH).
4 SCREW (2x2=4).
- 3 INSTALL CABLE CONNECTOR TO BOTH ENDS OF LENGTH OF FLEXIBLE CONDUIT AND INSTALL CONDUIT TO BOXES.
- 4 REMOVE KNOCKOUT PLUG 1 N BOX OR COVER PLATE OF EQUIPMENT AND SUPPLY BOXES.
2 KNOCKOUTS PER BOX.
- 5 PULL THREE, NO. 2/0 WIRES THROUGH CONDUIT.
3 WIRES.
6 FEET OF WIRES PULLED.
- 6 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE AND TERMINAL.
- 7 SEPARATE, FORM AND ALIGN BOTH ENDS OF THREE HIRES TO TERMINALS IN EACH BOX.
4 WIRES IN CIRCUIT.
4 WIRES TO BE SEPARATED.

GT-37 = .70653 HRS PER JOB

GT -38

ASSEMBLE AND INSTALL DROP CORD TO OVERHEAD TROLLEY DUCT SYSTEM .

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND INSTALL ONE DROP CORD

GT-38 = .66481 HRS PER JOB

GT-39

INSTALL PHONE BOX TO FLOOR DUCT, EXCLUDES LOCATING AND REMOVING KNOCKOUT PLUG, ONE MAN CREW.

NO WORK UNIT DESCRIPTION

- 1 FASTEN BASE OF PHONE BOX TO FLOOR DUCT.
- 2 INSTALL COVER ON PHONE BOX - 4 SCREW HAND TIGHTENED.
- 3 ADDITIONAL MATERIAL HANDLING.

GT-39 = .04336 HRS PER BOX
+ .03453 HRS PER JOB

GT-40

REMOVE PHONE BOX FROM FLOOR DUCT - NO OBSTRUCT IONS ONE MAN CREW.

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER FROM PHONE BOX - CONTAINS 4 SCREWS .
- 2 REMOVE NIPPLE FROM PHONE BOX AND FLOOR DUCT.
- 3 REMOVE BASE AND TWO SIDES OFF PHONE BOX.
- 4 INSTALL COVER TO PHONE BOX WITH SCREW BY HAND FOR SAFE KEEPING UNTIL TELEPHONE COMPANY RELOCATES.
- 5 ADDITIONAL MATERIAL HANDLING.

GT - 40 .10887 HRS PER JOB
+ .02380 HRS PER BOX

GT-41

PHONE BOX : REMOVE FROM ONE LOCATION AND INSTALL IN ANOTHER APPROXIMATELY EIGHT FEET AWAY, UNOBSTRUCTED - ONE MAN CREW.

NO WORK UNIT DESCRIPTION

- 1 REMOVE PHONE BOX FROM FLOOR DUCT, NO OBSTRUCT ION ONE MAN CREW.
- 2 INSTALL PHONE BOX TO FLOOR DUCT, EXCLUDES LOCATING AND REMOVING KNOCKOUT PLUG FROM FLOOR DUCT - ONE MAN CREW.
- 3 ADDITIONAL MATERIAL HANDLING.

GT-41 = .25582 HRS PER JOB
+ .05833 HRS PER BOX

GT-51

STRAIGHT SPLICE ONE SINGLE CONDUCTOR, POLYETHYLENE JACKET (OR EQUAL) NUMBER 8 TO NUMBER 3/0 CABLE

NO WORK UNIT DESCRIPTION

- 1 SPLICE CABLE , POLYETHYLENE JACKET (OR EQUAL) SINGLE CONDUCTOR, SIZE NO. 8 THRWGH NO. 3/0.

GT-51 = 1.18674 HRS PER JOB

GT-52

STRAIGHT SPLICE SINGLE CONDUCTOR , POLYETHYLENE JACKET (OR EQUAL) 1250 MCM THROUGH 2500 MCM CABLE

NO WORK UNIT DESCRIPTION

- 1 SPLICE CABLE , POLYETHYLENE JACKET (OR EQUAL) SINGLE CONDUCTOR SIZE 1250 MCM THROUGH 2500 MCM.

GT-52 = 3.21715 HRS PER JOB

GT - 53

STRAIGHT SPLICE ONE, THREE - CONDUCTOR, POLYETHYLENE JACKET (OR EQUAL) NUMBER 8 THROUGH NUMBER 3/0 CABLE

NO WORK UNIT DESCRIPTION

1 SPLICE CABLE , POLYETHYLENE JACKET (OR EQUAL) THREE CONDUCTOR , SIZE NO. 8 THROUGH NO. 3/0.

GT-53 = 6.18950 HRS PER JOB

GT-54

STRAIGHT SPLICE ONE, THREE-CONDUCTOR, POLYETHYLENE JACKET (OR EQUAL) , NUMBER 4/0 THROUGH 450 MCM CABLE

NO WORK UNIT DESCRIPTION

1 SPLICE CABLE, POLYETHYLENE JACKET (OR EQUAL) THREE CONDUCTOR , SIZE NO. 4/0 THROUGH 450 MCM .

GT-54 = 7.66594 HRS PER JOB

GT-55

STRAIGHT SPLICE ONE, THREE-CONDUCTOR, POLYETHYLENE JACKET (OR EQUAL) , 500 MCM THROUGH 1000 MCM CABLE

NO WORK UNIT DESCRIPTION

1 SPLICE CABLE, POLYETHYLENE JACKET (OR EQUAL) THREE CONDUCTOR SIZE 500 MCM THROUGH 1000 MCM.

GT-55 = 9.89296 HRS PER JOB

GT-56

STRAIGHT SPLICE ONE, SINGLE-CONDUCTOR, LEAD SHEATHED NUMBER 4/0 THROUGH NUMBER 450 MCM CABLE

NO WORK UNIT DESCRIPTION

1 SPLICE CABLE (IN LINE), LEAD SHEATHED, SINGLE CONDUCTOR; SIZE NO. 4/0 THROUGH 450 MCM.

GT-56 = 3.46486 HRS PER JOB

GT-57

STRAIGHT SPLICE THREE , SINGLE CONDUCTOR , LEAD SHEATHED NUMBER 4/0 THROUGH 450 MCM CABLES

NO WORK UNIT DESCRIPTION

1 SPLICE CABLE (IN LINE), LEAD SHEATHED, SINGLE CONDUCTOR; SIZE NO. 4/0 THROUGH 450 MCM. 2 MINUS TIME TO LET TWO OF THE THREE INSULATING COMPOUND - FILLED SLEEVES COOL OFF PER .1 HR. (10 OF .1 HRS . PER SLEEVE) 2 SLEEVES.

GT-57 = 8.39458 HRS PER JOB

GT-58

STRAIGHT SPLICE ONE, THREE-CONDUCTOR . LEAD SHEATHED NUMBER 4/0 THROUGH 450 MCM CABLE

NO WORK UNIT DESCRIPTION

1 SPLICE CABLE (IN LINE), LEAD SHEATHED, THREE CONDUCTOR; SIZE NO. 4/0 THROUGH 450 MCM .

GT-58 = 6.15661 HRS PER JOB

GT-66

INSTALL METALLIC SHEATHED OR NON-METALLIC CABLE AND NEW BOXES; CABLE FASTENED CAREFULLY TO EXPOSED WOOD SURFACE EVERY TWO FEET WITH STAPLES NO WIRE CONNECTIONS MADE - LADDER NOT USED.

NO WORK UNIT DESCRIPTION

1 INSTALL BOXES TO WOOD SURFACE USING TWO NAILS EACH. 2 INSTALL FOOTAGE OF CABLE ON WOOD SURFACE (CAREFULLY). 3 REMOVE EXISTING BOX COVER PLATE. 2 SCREW PER PLATE. 4 REMOVE KNOCKOUT PLUGS IN BOXES. 2 PLUGS PER BOX. 5 FASTEN CABLE (BOTH ENDS) TO BOXES. 6 MOVE EXISTING WIRE SPLICE ASIDE IN EXISTING BOX.

GT-66 = .11629 HRS PER BOX + .08568 HRS PER JOB + .00115 HRS PER FOOT

GT-68

INSTALL METALLIC SHEATHED OR NON-METALLIC CABLE AND NEW BOXES; CABLE FASTENED TO FRAMING MEMBERS AND RUN THROUGH DRILLED HOLES MADE APPROXIMATELY TEN FEET APART - NO WIRE CONNECTIONS MADE NO LADDER USED

NO WORK UNIT DESCRIPTION

- 1 INSTALL NEW BOXES TO WOOD SURFACE USING TWO NAILS EACH .
- 2 INSTALL FOOTAGE OF CABLE ON WOOD FRAMING MEMBERS AND THROUGH DRILL HOLES (INCL. DRILLING HOLES IN woo).
- 3 REMOVE EXISTING BOX COVER PLATE.
2 SCREW PER JOB.
- 4 REMOVE KNOCKOUT PLUGS IN NEW BOXES.
2 KNOCKOUT PLUGS PER BOX.
- 5 FASTEN CABLE (BOTH ENDS) TO NEW BOXES.
- 6 MOVE EXISTING WIRE SPLICES ASIDE IN EXISTING BOX.

GT-68 = .11629 HRS PER BOX
 + .12983 HRS PER JOB
 + .00230 HRS PER FOOT

GT-70

INSTALL METALL 1 C SHEATHED OR NON-METALLIC CABLE AND NEW BOXES; CABLE PULLED THROUGH UNOBSTRUCTED PARTITION INTERIOR USING A "FISH TAPE" - NO WIRE CONNECTIONS MADE - NO LADDER USED

NO WORK UNIT DESCRIPTION

- 1 MAKE BOX CUT-OUT HOLES IN BASEBOARD.
1 PER BOX.
- 2 REMOVE EXISTING BOX COVER PLATE.
2 SCREW PER JOB.
- 3 REMOVE KNOCKOUT PLUGS IN NEW BOXES.
2 KNOCKOUT PLUGS PER BOX.
- 4 INSTALL FOOTAGE OF CABLE IN UNOBSTRUCTED PARTITION INTERIOR FROM ACCESS HOLE (OR BOX HOLE) TO BOX HOLE .
- 5 FASTEN CABLE (BOTH ENDS) TO NEW BOXES.
- 6 MOVE EXISTING WIRE SPLICES ASIDE IN EXISTING BOX.
- 7 INSTALL BOXES IN CUT-OUT HOLES PROVIDED ON WOOD SURFACE USING TWO SCREWS EACH.

GT-70 = .55009 HRS PER BOX
 + .02276 HRS PER JOB
 + .00137 HRS PER FOOT

GT-72

INSTALL FOOTAGE OF METALLIC SHEATHED OR NON-METALLIC CABLE AND NEW BOXES; CABLE PULLED THROUGH OBSTRUCTED PARTITION INTERIOR USING A BLIND MULTI "FISH-TAPE" HOOKUP WITHIN PARTITION NO WIRE CONNECTIONS MADE - LADDER NOT USED

NO WORK UNIT DESCRIPTION

- 1 MAKE NEW BOX CUT-OUT HOLES IN BASEBOARD.
1 HOLE PER BOX.
- 2 INSTALL NEW BOXES IN CUT-OUT HOLES PROVIDED ON WOOD SURFACE USING TWO SCREW EACH.
- 3 REMOVE EXISTING BOX COVER PLATE.
2 SCREW PER JOB.
- 4 REMOVE KNOCKOUT PLUGS IN NEW BOXES.
2 KNOCKOUT PLUGS PER BOX.
- 5 INSTALL FOOTAGE OF CABLE IN OBSTRUCTED PARTITION INTERIOR FROM ACCESS HOLE (OR BOX HOLE) TO BOX HOLE - TWO SET UPS REWIRED.
- 6 FASTEN CABLE (BOTH ENDS) TO NEW BOXES.
1 PER BOX.
- 7 MOVE EXISTING WIRE SPLICES ASIDE IN EXISTING BOX.

GT-72 = .63419 HRS PER BOX
 + .02276 HRS PER JOB
 + .00574 HRS PER FOOT

GT-74

DISCONNECT AND REMOVE FOOTAGE OF NON-METALLIC OR METALLIC SHEATHED CABLE AND BOXES WITH SWITCH OR CONVENIENCE OUTLET UNIT FROM CAREFULLY STAPLED WOOD SURFACE INSTALLATION - LADDER NOT USED

NO WORK UNIT DESCRIPTION

- 1 SHUT OFF POWER, LATER TURN ON.
- 2 REMOVE COVER PLATE FROM EXISTING BOXES TO BE REMOVED .
2 SCREW PER PLATE.
- 3 REMOVE SWITCH OR TERMINAL RECEPTACLE FROM EXISTING BOXES.
- 4 PULL WIRE SPLICES OUT OF SUPPLY BOX.
- 5 REMOVE TAPE FROM SPLICES IN SUPPLY BOX.
- 6 CUT CONDUCTOR LEADS IN SUPPLY BOX AND RETAPE REMAINING LEADS.
3 WIRES PER JOB.
- 7 CUT CABLE ADJACENT TO EXISTING BOXES.
3 WIRES PER CABLE.
- 8 REMOVE CABLE END FROM CONNECTOR AND CONNECTOR FROM SUPPLY BOX AND PLUG KNOCKOUT HOLE.
- 9 REMOVE CABLES AND STAPLES FROM WALL.
- 10 REMOVE EXISTING TERMINAL BOXES.
- 11 PUSH RETAPED LEADS BACK IN SUPPLY BOX.
- 12 INSTALL COVER PLATE TO SUPPLY BOX.
2 SCREWS PER JOB.

GT-74 = .11540 HRS PER JOB
 + .05577 HRS PER BOX
 + .00163 HRS PER FOOT

GT-81

INSTALL 1/2" TO 1" EMT CONDUIT ON WOODEN SURFACE -
PER UP TO TEN FOOT SECTION
INCLUDES INSTALLATION TO EXISTING BOX EVERY FOUR
SECTION AVERAGE

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE EXISTING BOX COVER PLATE
2 SCREW PER PLATE
- 2 MOVE EXISTING SPLICED WIRES ASIDE.
- 3 REMOVE KNOCKOUT IN EXISTING BOX.
1 KNOCKOUT PER JOB.
- 4 MEASURE, MARK, CUT AND REAM LENGTH OF EMT
- 5 MEASURE, MARK AND BEND EMT UP TO 90 DEGREES IN
EACH OF 3 PLACES
- 6 INSTALL COUPLINGS TO EMT FOR BOX.
1-COUPLING FOR EACH TEN FOOT SECTION.
- 7 INSTALL EMT TO WOOD SURFACE USING TWO HOLE STRAPS
(TWO NAILS PER STRAP).
- 8 INSTALL COVER PLATE TO BOX - TWO SCREWS

GT-81 = .11186 HRS PER SECTION

GT-82

MOUNT JUNCTION SWITCH OR OUTLET BOX ON WOODEN
SURFACE - INCLUDES CONNECTION TO CONDUIT

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE KNOCKOUTS IN NEW BOX
2 KNOCKOUTS PER BOX.
- 2 INSTALL TWO CONNECTORS TO NEW BOX AND TO EMT
- 3 INSTALL NEW BOX TO WOOD SURFACE USING 2 SCREW PER
BOX
- 4 INSTALL COVER PLATE TO NEW BOX
2 SCREWS PER COVER

GT-82 = .16494 HRS PER BOX

GT-83

INSTALL 1/2" TO 1 " EMT CONDUIT ON CONCRETE SURFACE
PER UP TO TEN FOOT SECTION
INCLUDES CONNECTION TO EXISTING BOX EVERY FOUR
SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE EXISTING BOX COVER PLATE
2 SCREW PER PLATE
- 2 MOVE EXISTING SPLICED WIRES ASIDE.
- 3 REMOVE KNOCKOUT IN EXISTING BOX.
1 KNOCKOUT USED PER JOB.
- 4 MEASURE , MARK AND BEND EMT UP TO 90 DEGREES IN
EACH OF 3 PLACES FOR EACH SECTION
- 5 MEASURE , MARK CUT AND REAM LENGTH OF EMT
- 6 INSTALL COUPLINGS FROM EMT TO BOX
1-COUPLING FOR EACH SECTION OF CONDUIT.
- 7 INSTALL EMT TO CONCRETE SURFACE USING HOLE CLAMP,
SCREWS AND EXPANSION SHIELDS.
2-CLAMPS PER SECTION
- 8 INSTALL COVER PLATE TO EXISTING BOX
2 SCREW PER BOX

GT-83 = .23982 HRS PER SECTION

GT-84

MOUNT JUNCTION BOX OR OUTLET BOX TO CONCRETE
SURFACE - INCLUDES CONNECTION TO CONDUIT

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE KNOCKOUTS IN NEW BOX
2 KNOCKOUT PLUGS PER BOX
- 2 INSTALL TWO CONNECTORS TO EMT FOR NEW BOX
- 3 INSTALL NEW BOX TO CONCRETE SURFACE USING TWO
SCREWS AND SHIELD
- 4 INSTALL COVER PLATE TO NEW BOX
2 SCREWS PER PLATE

GT-84 = .29566 HRS PER BOX

GT-85

INSTALL 1- 1/4" TO 2" EMT CONDUIT ON WOODEN SURFACE PER UP TO TEN FOOT SECTION INCLUDES CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE EXISTING BOX COVER PLATE .
2 SCREW PER JOB.
- 2 MOVE EXISTING SPLICED WIRES ASIDE.
- 3 REMOVE KNOCKOUT IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE , MARK AND BEND EMT UP TO 90 DEGREES IN EACH OF 3 PLACES
- 5 MEASURE , MARK, CUT AND REAM LENGTH OF EMT
- 6 INSTALL COUPLINGS TO EMT FOR BOX
1-COUPLING PER SECTION.
- 7 INSTALL EMT TO WOOD SURFACE USING TWO HOLE STRAPS (TWO NAILS PER STRAP).
2-STRAPS PER BOX.
- 8 INSTALL COVER PLATE TO BOX.
2 SCREWS PER JOB.

GT-85 = .13329 HRS PER SECTION

GT-86

INSTALL 1/2" TO 2" EMT CONDUIT ON WOOD OR CONCRETE SURFACE IN RESTRICTED AREA SUCH AS ATTIC, CRAWL-SPACE OR BEHIND WALL - PER UP TO TEN FOOT SECTION

NO WORK UNIT DESCRIPTION

- 1 INSTALL EMT TO WOOD
- 2 INSTALL EMT TO CONCRETE
- 3 WORK IN RESTRICTED AREA

GT-86 = .30000 HRS PER SECTION

GT-87

INSTALL 1 -1/4" TO 2" EMT CONDUIT ON CONCRETE SURFACE PER UP TO TEN FOOT SECTION INCLUDES CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREWS PER JOB.
- 2 MOVE EXISTING SPLICED WIRES ASIDE.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE, MARK AND BEND EMT UP TO 90 DEGREES IN EACH OF 3 PLACES
- 5 MEASURE , MARK, CUT AND REAM LENGTH OF EMT
- 6 INSTALL COUPLINGS TO EMT FOR BOX.
1 -COUPLING PER SECTION.
- 7 INSTALL EMT TO CONCRETE SURFACE USING HOLE CLAMPS, SCREWS AND EXPANSION SHIELDS.
2-CLAMPS PER SECTION .
- 8 INSTALL COVER PLATE TO BOX.
2 SCREWS PER JOB.

GT-87 = .26125 HRS PER SECTION

GT-88

INSTALL JUNCTION SWITCH OR OUTLET BOX ON WOOD OR CONCRETE SURFACE IN RESTRICTED AREA SUCH AS ATTIC, CRAWLSPACE OR BEHIND WALL

NO WORK UNIT DESCRIPTION

- 1 INSTALL BOX TO WOOD
- 2 INSTALL BOX TO CONCRETE
- 3 WORK IN RESTRICTED AREA

GT-88 = .33373 HRS PER BOX

GT-91

REMOVE 1/2" TO 2" EMT AND WIRE, (WIRE SIZE NO. 8 OR SMALLER) AND BOX; LADDER NOT INCLUDED INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY . THREE WIRES USED AS AN AVERAGE.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL SUPPLY BOX COVER PLATE WITH TWO SCREWS.
2 SCREWS PER PLATE. 2 TIMES (REMOVE, REINSTALL).
- 2 CUT WIRES AND TAPE ENDS.
- 3 CUT, PULL AND COIL WIRES OUT OF CONDUIT FOR BOX (INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY)
3-WIRES USED AS AN AVERAGE.
SECTION = 10 FEET.
- 4 REMOVE TWO-HOLE STRAPS (OR CLAMPS) FROM WOOD, CONCRETE, OR STEEL SURFACE.
2-STRAPS PER SECTION
- 5 REMOVE EMT FROM BOX ENDS.
2 ENDS PER BOX.
- 6 REMOVE COUPLINGS OR CONNECTORS FROM EMT FOR EACH BOX
1-COUPLING PER SECTION.
- 7 REMOVE JUNCTION, OUTLET OR SWITCH BOX

GT-91 = .24944 HRS PER SECTION

GT-93

REMOVE 1/2" TO 2" EMT AND WIRE, (SIZES NO. 6 TO 2) AND BOX; LADDER NOT USED - INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY. THREE WIRES USED AS AN AVERAGE.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL SUPPLY BOX COVER PLATE WITH TWO SCREW.
- 2 SCREW PER PLATE. 2 TIMES PER JOB
- 2 CUT WIRES AND TAPE ENDS. 3-WIRES PER JOB.
- 3 CUT, PULL AND COIL WIRES OUT OF CONDUIT (INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY) 3 WIRES PER JOB AVERAGE. SECTION = 10 FEET.
- 4 REMOVE TWO-HOLE STRAPS (OR CLAMPS) FROM WOOD, CON-CRETE, OR STEEL SURFACE FOR EACH SECTION 2-STRAPS PER SECTION .
- 5 REMOVE EMT FROM BOX END 2 ENDS PER BOX.
- 6 REMOVE COUPLINGS OR CONNECTORS FROM EMT FOR EACH Box . 1-COUPLING PER SECTION.
- 7 REMOVE JUNCTION, OUTLET OR WITCH BOX

GT-93 = .29134 HRS PER SECTION

GT-94

REMOVE KNOCKOUT PLUG IN FLOOR DUCT. USE ELECTRONIC RECEPTACLE LOCATOR TO LOCATE PLUG AND USE HAMMER AND CHISEL TO REMOVE. ONE MAN CREW.

NO WORK UNIT DESCRIPTION

- 1 LOCATE POSITION OF KNOCKOUT PLUG IN FLOOR DUCT USING ELECTRONIC RECEPTACLE LOCATOR.
- 2 CHIP OUT 4" DIAMETER HOLE THRU 1/2" CONCRETE FLOOR
- 3 REMOVE KNOCKOUT PLUG FROM FLOOR DUCT USING HAMMER OR SIMILAR TOOL.
- 4 ADDITIONAL MATERIAL HANDLING.

GT-94 = .10684 HRS PER JOB
 + .01668 HRS PER PLUG
 + .09980 HRS PER HOLE

GT-100

INSTALL 10' OF UP TO 1" DIAMETER FLEXIBLE METALLIC CONDUIT ON WOOD SURFACE - EXCLUDING PULLING AND CONNECTING HIRES - LADDER NOT USED. INCLUDES CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL BOX COVER PLATE. 2 SCREW PER JOB.
- 2 REMOVE KNOCKOUT PLUGS. 2 KNOCKOUT PLUGS PER JOB.
- 3 INSTALL CONNECTORS TO BOX
- 4 MEASURE , MARK, CUT AND DEBURR CONDUIT
- 5 INSTALL CONDUIT TO CONNECTIONS .
- 6 INSTALL ONE-HOLE CLAMP TO WOOD WITH SCREW

GT-100 = .15035 HRS PER JOB

GT-101

INSTALL TEN FOOT SECTION OF UP TO 1" DIAMETER FLEXIBLE METALLIC CONDUIT TO WOOD OR CONCRETE IN RESTRICTED SPACE SUCH AS ATTIC, CRAWLSPACE OR BEHIND WALL

NO WORK UNIT DESCRIPTION

- 1 INSTALL FLEXIBLE CONDUIT TO WOOD
- 2 INSTALL FLEXIBLE CONDUIT TO CONCRETE
- 3 WORK IN RESTRICTED AREA

GT-101 = .25655 HRS PER SECTION

GT-102

INSTALL 10' OF UP TO 1" DIAMETER FLEXIBLE METALLIC CONDUIT ON CONCRETE SURFACE - EXCLUDES PULLING AND CONNECTING WIRES - LADDER NOT USED INCLUDES CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL BOX COVER PLATES. 2 SCREW PER PLATE
- 2 REMOVE KNOCKOUT PLUGS. 2 KNOCKOUT PLUGS PER JOB.
- 3 INSTALL CONNECTORS TO BOX
- 4 MEASURE , MARK, CUT AND DEBURR SECTION
- 5 INSTALL CONDUIT TO CONNECTORS.
- 6 INSTALL ONE HOLE CLAMP TO CONCRETE SURFACE

GT-102 = .19762 HRS PER JOB

GT-104

INSTALL 10' OF UP TO 1" DIAMETER FLEXIBLE METALLIC CONDUIT TO EXISTING CONTROL EQUIPMENT INTEGRAL TYPE BOXES - LADDER NOT USED . INCLUDES CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE KNOCKOUT IN EACH OF TWO BOXES.
2 KNOCKOUTS PER JOB.
- 2 INSTALL CONNECTORS TO BOXES.
- 3 MEASURE, MARK, CUT AND DEBURR CONDUIT USING HAND TOOLS .
- 4 INSTALL CONDUIT TO CONNECTORS.

GT-104 = .11573 HRS PER JOB

GT-106

REMOVE 10' LENGTH OF UP TO 1" DIAMETER FLEXIBLE METALLIC CONDUIT AND ONE BOX - INCLUDES CUTTING AND PULLING GIVEN FOOTAGE OF NO. 8 OR SMALLER WIRES OUT OF CONDUIT - LADDER NOT USED.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL BOX COVER PLATE.
3 SCREW PER PLATE PER JOB.
- 2 REMOVE BOX FROM MOUNTING SURFACE - AVERAGE FOUR SCREW
- 3 CUT AND PULL TEN FEET OF NO. 8 WIRE OUT OF CONDUIT FROM BOX TO BOX
1 WIRE AND 10 FEET BOX TO BOX.
- 4 REMOVE CONDUIT FROM CONNECTOR AND CONNECTOR FROM BOX
- 5 REMOVE CLIPS OR CLAMPS USED TO MOUNT CONDUIT

GT-106 = .15756 HRS PER SECTION

GT-111

INSTALL WIREWAY TO WOOD SURFACE PER UP TO TEN FOOT SECTION - INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL SUPPLY BOX PLATE.
4 SCREWS PER JOB.
- 2 REMOVE KNOCKOUT PLUG FROM BOX
1 PLUG PER BOX PER JOB.
- 3 INSTALL CONNECTORS TO BOX
- 4 CUT AND DEBURR LENGTH OF WIREWAY
- 5 INSTALL ELBOW BASE PLATE TO WOOD
- 6 INSTALL SECTION OF WIREWAY TO WOOD FLOOR
- 7 INSTALL 2 BUSHINGS FOR EACH BOX.
- 8 INSTALL ELBOW COVER FOR EACH BOX.

GT-111 = .44456 HRS PER SECTION

GT-113

INSTALL WIREWAY TO CONCRETE SURFACE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL SUPPLY BOX COVER PLATE.
4 SCREW PER PLATE PER JOB.
- 2 REMOVE KNOCKOUT PLUGS IN EXISTING BOX
1 PLUG PER BOX PER JOB.
- 3 INSTALL CONNECTOR TO BOX
- 4 CUT AND DEBURR LENGTH OF WIREWAY
- 5 INSTALL ELBOW BASE PLATE TO CONCRETE
- 6 INSTALL SECTION OF WIREWAY ON CONCRETE FLOOR
- 7 INSTALL TWO BUSHINGS FOR EACH BOX.
- 8 INSTALL ELBOW COVER FOR EACH BOX.

GT-113 = .54460 HRS PER SECTION

GT-120

REMOVE WIREWAY AND WIRE PER TEN FOOT SECTION INCLUDING ONE BOX FOUR WIRES USED AS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL SUPPLY BOX COVER PLATE WITH SCREW.
4 SCREW PER PLATE PER JOB.
- 2 CUT WIRES AND TAPE ENDS.
- 3 CUT, PULL AND COIL OF NO. 8 OR SMALLER WIRES OUT.
- 4 REMOVE CONNECTORS.
- 5 REMOVE LENGTHS OF WIREWAY FOR BOX
- 6 REMOVE BUSHINGS .
- 7 REMOVE ELBOW COVERS.
- 8 REMOVE ELBOW BASE PLATES.
- 9 REMOVE JUNCTION, SWITCH OR UTILITY BOX INCLUDING COVER PLATE .

GT-120 = .22172 HRS PER SECTION

GT-125

INSTALL 1/2"-1" RIGID CONDUIT ON WOOD PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREWS PER JOB.
MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE , CUT, THREAD AND REAM CONDUIT
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES IN EACH OF THREE PLACES
- 6 INTALL CONDUIT TO BOX KNOCKOUTS ALREADY IN PLACE.
- 7 INSTALL CONDUIT T TO WOOD SURFACE USING ONE HOLE CLAMP FOR EACH BOX .
- 8 INSTALL COPLING ENDS TO CONDUIT ALREADY IN PLACE
- 9 INSTALL 10 FOOT LENGTH OF CONDUIT TO COUPLING
- 10 INSTALL OLD COVER PLATE.
2 SCREWS PER JOB.

GT-125 = .26227 HRS PER SECTION

GT-129

INSTALL 1-1/4"-2" RIGID CONDUIT ON WOOD PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREWS PER JOB.
MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE , CUT, THREAD AND REAM CONDUIT
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES IN EACH OF THREE PLACES
- 6 INSTALL CONDUIT TO BOX ALREADY IN PLACE.
- 7 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 8 INSTALL TWO HOLE CONDUIT CLAMPS ON WOOD USING SCREWS.
- 9 INSTALL OLD COVER PLATE .
2 SCREWS PER JOB.

GT-129 = .41750 HRS PER SECTION

GT-126

INSTALL UP TO TEN FOOT SECTION OF 1/2" TO 2" RIGID CONDUIT ON WOOD OR CONCRETE SURFACE IN RESTRICTED AREA SUCH AS ATTIC, CRAWLSPACE OR BEHIND WALL

NO WORK UNIT DESCRIPTION

- 1 INSTALL RIGID CONDUIT TO WOOD
- 2 INSTALL RIGID CONDUIT TO CONCRETE
- 3 WORK IN RESTRICTED AREA

GT-126 = .62934 HRS PER SECTION

GT-131

INSTALL 1-1/4"-2" RIGID CONDUIT ON CONCRETE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE EXISTING BOX COVER PLATE .
2 SCREWS PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE , CUT, THREAD AND REAM CONDUIT
- 5 MEASURE AND BEND CONUIT UP TO 90 DEGREES IN EACH OF THREE PLACES
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLINGS OR CONDULETS ALREADY IN PLACE
- 8 INSTALL TWO HOLE CONDUIT CLAMPS ON CONCRETE USING EXPANSION SHIELDS.
- 9 INSTALL OLD COVER PLATE.
2 SCREWS PER JOB.

GT-131 = .60562 HRS PER SECTION

GT-127

INSTALL 1/2"-1" RIGID CONDUIT ON CONCRETE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

- 1 REMOVE BOX COVER PLATE .
2 SCREWS PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN BOX
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE , CUT, THREAD AND REAM CONDUIT
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES IN EACH OF THREE PLACES
- 6 INSTALL CONDUIT TO BOX
- 7 INSTALL CONDUIT TO CONCRETE SURFACE USING ONE HOLE CLAMPS .
- 8 INSTALL COUPLINGS TO CONDUIT
- 9 INSTALL OLD COVER PLATE .
2 SCREWS PER JOB.

GT-127 = .32916 HRS PER SECTION

GT-133

INSTALL 1-1/4" TO 2" RIGID CONDUIT HUNG FROM WOOD PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREWS PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE, CUT, THREAD AND REAM CONDUIT
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES IN EACH OF THREE PLACES
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLINGS OR CONDULETS ALREADY IN PLACE
- 8 INSTALL TWO HOLE CONDUIT CLAMPS HUNG FROM WOOD
- 9 INSTALL OLD COVER PLATE .
2 SCREWS PER JOB.

GT-133 = .54186 HRS PER SECTION

GT-134

INSTALL 1-1/4" TO 2" RIGID CONDUIT HUNG FROM CONCRETE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREWS PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE , CUT, THREAD AND REAM CONDUIT
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES IN EACH OF THREE PLACES
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLINGS OR CONDULETS ALREADY IN PLACE
- 8 INSTALL TWO HOLE CONDUIT CLAMPS HUNG FROM CONCRETE USING ROD SUPPORTED CONDUIT HANGERS WITH CEILING FLANGES
- 9 INSTALL OLD COVER PLATE .
2 SCREWS PER JOB.

GT-134 = .73406 HRS PER SECTION

GT-135

INSTALL 2 1/2" TO 4" RIGID CONDUIT TO WOOD PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREW PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUGS IN EXISTING BOX
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE, CUT, THREAD AND REAM CONDUIT USING PIPE AND BOLT MACHINE FOR EACH NEW BOX.
1 SINGLE END CUT AND THREADED PER BOX.
- 5 MEASURE AND BEND 1 PIECE OF CONDUIT UP TO 90 DEGREES
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLINGS OR CONDULET ALREADY IN PLACE
- 8 INSTALL TWO HOLE CLAMPS TO WOOD
- 9 INSTALL OLD COVER PLATE.
2 SCREW PER JOB.

GT-135 = .59374 HRS PER SECTION

GT-136

REMOVE RIGID CONDUIT (SIZES 1/2" TO 2") AND WIRE (SIZE NO. 8 OR SMALLER) BOX TO BOX PER SECTION
4- WIRES USED AS AVERAGE.

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE AND REINSTALL COVER PLATE ON TERMINAL BOX.
2 SCREW PER PLATE.
- 2 CUT WIRES AND TAPE ENDS AT SUPPLY BOX.
- 3 REMOVE JUNCTION, OUTLET, OR SWITCH BOX INCLUDING COVER PLATE AND SCREWS .
- 4 CUT, PULL AND COIL WIRES OUT OF CONDUIT, INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY .
4-WIRES USED AS AN AVERAGE.
SECTION = 10 FEET.
- 5 REMOVE ONE-HOLE CLAMPS OR CLIPS EVERY 10' SECTION.
- 6 REMOVE RIGID CONDUIT FROM BOX
- 7 REMOVE COUPLINGS FROM RIGID CONDUIT EVERY 10' SECTION.

GT-136 = .16309 HRS PER JOB

GT-138

REMOVE RIGID CONDUIT (SIZES 1/2" TO 2") AND WIRE (SIZES NO. 6 TO 2) PER SECTION
4-WIRES USED AS AN AVERAGE.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL COVER PLATE ON TERMINAL BOX.
2 SCREWS PER PLATE.
- 2 CUT WIRES AND TAPE ENDS AT SUPPLY BOX.
- 3 REMOVE JUNCTION, OUTLET OR SWITCH BOX INCLUDING COVER PLATE AND SCREWS .
- 4 CUT, PULL AND COIL WIRES OUT OF CONDUIT, (INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY).
4-WIRES USED AS AN AVERAGE.
SECTION = 10 FEET.
- 5 REMOVE ONE-HOLE CLAMPS OR CLIPS EVERY 10' SECTION.
- 6 REMOVE RIGID CONDUIT FROM BOX
- 7 REMOVE COUPLINGS FROM RIGID CONDUIT EVERY 10' SECTION.

GT-138 = .16728 HRS PER JOB

GT-140

REMOVE RIGID CONDUIT (SIZES 2 1/2" TO 4") AND WIRE (SIZE NO. 8 OR SMALLER) PER SECTION
4-WIRES USED AS AN AVERAGE.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL COVER PLATE ON TERMINAL BOX.
2 SCREW PER PLATE.
- 2 CUT WIRES AND TAPE ENDS AT SUPPLY BOX.
- 3 REMOVE JUNCTION, OUTLET OR SWITCH BOX INCLUDING COVER PLATE AND SCREWS.
- 4 CUT, PULL AND COIL WIRES OUT OF CONDUIT, (INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY).
- 5 REMOVE TWO-HOLE CLAMPS OR STRAPS EVERY 10' SECTION
- 6 REMOVE RIGID CONDUIT FROM BOX
- 7 REMOVE COUPLINGS FROM RIGID CONDUIT EVERY 10' SECTION.

GT-140 = .24392 HRS PER JOB

GT-142

REMOVE RIGID CONDUIT (SIZES 2 1/2" TO 4") AND WIRE (SIZES NO. 6 TO 2), BOX TO BOX PER SECTION
4-WIRES USED AS AN AVERAGE.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL COVER PLATE ON TERMINAL BOX.
2 SCREW PER PLATE.
2 TIMES PER JOB.
- 2 CUT WIRES AND TAPE ENDS AT SUPPLY BOX.
4 WIRES PER JOB AVERAGE.
- 3 REMOVE JUNCTION, OUTLET OR SWITCH BOXES INCLUDING COVER PLATE AND SCREWS.
- 4 CUT, PULL AND COIL WIRES OUT OF CONDUIT, BOX TO BOX, (INCLUDES COILING UP EACH REMOVED WIRE SEPARATELY).
4 WIRES PER JOB AVERAGE.
- 5 REMOVE TWO-HOLE CLAMPS OR STRAPS FOR EVERY 10' SECTION.
- 6 REMOVE RIGID CONDUIT FROM BOX
- 7 REMOVE COUPLINGS FROM RIGID CONDUIT.

GT-142 = .28582 HRS PER JOB

GT-145

ASSEMBLE AND INSTALL FOOTAGE OF TROLLEY DUCT ON CONCRETE CEILING. ASSEMBLE AND INSTALL DROP CORDS .
SECTION = NUMBER OF 10' SECTIONS OF TROLLEY DUCT
CORD = NUMBER OF MOBILE DROP CORDS

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND INSTALL TROLLEY DUCT.
SECTION = NO. OF 10' SECTIONS OF TROLLEY DUCT.
CORD = NO. OF MOBILE DROP CORDS.
- 2 MATERIAL HANDLING.

GT-145 = .33160 HRS PER JOB
+ .53225 HRS PER SECTION
+ .84250 HRS PER CORD

GT-147

INSTALL 2-1/2" -4" RIGID CONDUIT TO CONCRETE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

=====

- 1 REMOVE EXISTING BOX COVER PLATE .
2 SCREW PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX
- 3 REMOVE KNOCKOUT PLUGS IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE, CUT, THREAD AND REAM CONDUIT USING PIPE AND BOLT MACHINE
1 SINGLE END CUT AND THREADED PER BOX.
- 5 MEASURE AND BEND 1 PIECE OF CONDUIT UP TO 90 DEGREES
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLING OR CONDULET ALREADY IN PLACE
- 8 INSTALL TWO HOLE CLAMPS TO CONCRETE.
2-CLAMPS PER SECTION .
- 9 INSTALL COVER PLATE TO EXISTING BOX.
2 SCREWS PER JOB.

GT-147 = .78594 HRS PER SECTION

GT-148

CUT AND PULL NUMBER 8 OR SMALLER WIRES FROM BOX TO BOX THROUGH FOOTAGE OF CONDUIT OR TUBING TO REMOVE OLD WIRE - PER LINEAR FOOT

NO WORK UNIT DESCRIPTION

=====

- 1 PULL NO. 8 OR SMALLER WIRES THROUGH CONDUIT.

GT-148 = .00119 HRS PER FOOT

GT-149

PULL NUMBER 8 OR SMALLER WIRES FROM BOX TO BOX USING FISHTAPE AND LINE TO INSTALL NEW WIRE TIME IS FOR LINEAR FOOT OF WIRE OR BUNDLE OF WIRES PULLED TOGETHER

NO WORK UNIT DESCRIPTION

=====

- 1 GREASE FISHTAPE OR WIRE PER FOOT
- 2 POSITION FISHTAPE TO CONDUIT
- 3 FEED WIRE OR FISHTAPE INTO CONDUIT PER FOOT
- 4 CUT, STRIP AND ATTACH WIRE TO FEED WIRE OR FISHTAPE
- 5 PULL NUMBER 8 OR SMALLER WIRE THROUGH CONDUIT PER FOOT
- 6 COIL FISHTAPE AFTER USE PER FOOT

GT-149 = .00364 HRS PER FOOT
+ .04386 HRS PER WIRE

GT-150

CUT AND PULL NUMBER 6 UP TO NUMBER 2 WIRES FROM BOX TO BOX THROUGH FOOTAGE OF CONDUIT OR TUBING TO REMOVE OLD WIRE - PER LINEAR FOOT

NO WORK UNIT DESCRIPTION

=====

- 1 PULL NO. 6 TO NO. 2 WIRES THROUGH CONDUIT.

GT-150 = .00538 HRS PER FOOT

GT-151

PULL NUMBER 6 UP TO NUMBER 2 WIRE FROM BOX TO BOX USING FISHTAPE AND LINE TO INSTALL NEW WIRE TIME IS FOR LINEAR FOOT OF WIRE OR BUNDLE OF WIRES PULLED TOGETHER

NO WORK UNIT DESCRIPTION

=====

- 1 GREASE WIRE OR FISHTAPE PER FOOT
- 2 POSITION FISHTAPE TO CONDUIT
- 3 FEED FISHTAPE OR WIRE INTO CONDUIT PER FOOT
- 4 STRIP, CUT AND FASTEN WIRE TO ROPE FOR PULL
- 5 PULL MANUALLY FROM REEL ONE FOOT OF NO. 6 TO NO. 2 WIRE, ATTACH TO PULL LINE AND REEVE THROUGH PULLEY PRIOR TO WIRE PULL PER FOOT
- 6 PULL WIRE THROUGH CONDUIT PER FOOT
- 7 COIL FISHTAPE OR WIRE AFTER USE

GT-151 = .00550 HRS PER FOOT
+ .03328 HRS PER WIRE

GT-153

INSTALL 2-1/2" TO 4" RIGID CONDUIT HUNG FROM WOOD PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

=====

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREWS PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE, CUT, THREAD AND REAM CONDUIT USING PIPE AND BOLT MACHINE
1 SINGLE END CUT AND THREADED PER BOX.
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES IN ONE PLACE
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLING OR CONDULET ALREADY IN PLACE
- 8 INSTALL ROD AND CONDUIT HANGERS U/CEILING FLANGES HUNG FROM WOOD FOR EACH NEW BOX.
2-HANGERS PER SECTION .
- 9 INSTALL COVER PLATE TO EXISTING BOX.
2 SCREWS PER JOB.

GT-153 = .72218 HRS PER SECTION

GT-154

INSTALL 2-1/2" TO 4" RIGID CONDUIT HUNG FROM CONCRETE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO EXISTING BOX EVERY FOUR SECTIONS AVERAGE

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE EXISTING BOX COVER PLATE.
2 SCREW PER JOB.
- 2 MOVE EXISTING WIRE SPLICES ASIDE IN BOX.
- 3 REMOVE KNOCKOUT PLUG IN EXISTING BOX.
1 KNOCKOUT PLUG PER JOB.
- 4 MEASURE, CUT, THREAD AND REAM CONDUIT USING PIPE AND BOLT MACHINE
1 SINGLE END CUT AND THREADED PER BOX.
- 5 MEASURE AND BEND CONDUIT UP TO 90 DEGREES ONCE
- 6 INSTALL COUPLINGS TO CONDUIT ALREADY IN PLACE
- 7 INSTALL LENGTH OF CONDUIT TO COUPLING OR CONDULET ALREADY IN PLACE
- 8 INSTALL ROD AND CONDUIT HANGERS W/CEILING FLANGES HUNG FROM CONCRETE
2-HANGERS PER SECTION .
- 9 INSTALL COVER PLATE TO EXISTING BOX.
2 SCREW PER JOB.

GT-154 = .91076 HRS PER SECTION

GT-155

INSTALL SINGLE POLE SWITCH - FORM, DRESS AND CONNECT ONE WIRE IN AND ONE WIRE OUT OF SWITCH; INSTALL COVER PLATE AND TEST FOR OPERATION

NO WORK UNIT DESCRIPTION

== =====

- 1 TURN POWER SWITCH OFF AND ON.
- 2 UNPACK UNIT FROM CARTON.
- 3 CUT, FORM, ALIGN AND CONNECT WIRES TO SWITCH.
1 = NO. OF WIRES PER SWITCH.
- 4 POSITION CONNECTED UNIT.
- 5 FASTEN UNIT TO BOX.
2 SCREWS PER SWITCH.
- 6 TEST FOR OPERATION.
- 7 INSTALL COVER PLATE .
2 SCREWS PER SWITCH.
- 8 MATERIAL HANDLING.

GT-155 = .04375 HRS PER JOB
+ .08860 HRS PER SWITCH

GT-156

REMOVE SINGLE POLE SWITCHES - INCLUDES REMOVAL AND INSTALLATION OF COVER PLATE; DISCONNECT WIRES AND TAPE ENDS

NO WORK UNIT DESCRIPTION

== =====

- 1 TURN POWER SWITCH OFF AND ON.
- 2 REMOVE AND REINSTALL COVER PLATES.
2 SCREWS PER UNIT.
- 3 REMOVE UNIT MOUNTING SCREWS .
2 SCREWS PER UNIT .
- 4 PULL CONNECTED UNIT OUT OF BOX.
- 5 DISCONNECT WIRES FROM TERMINAL.
- 6 TAPE WIRE ENDS.

GT-156 = .00922 HRS PER JOB
+ .07966 HRS PER UNIT

GT-157

INSTALL DOUBLE POLE SWITCHES OR DUPLEX RECEPTACLES - FORM, DRESS AND CONNECT TWO WIRES IN AND TWO WIRES OUT OF SWITCH OR RECEPTACLE, INSTALL COVER PLATE AND TEST FOR OPERATION.

NO WORK UNIT DESCRIPTION

== =====

- 1 TURN POWER OFF AND ON AGAIN.
- 2 UNPACK UNIT FROM CARTON.
- 3 CUT, FORM, ALIGN AND CONNECT WIRES TO SWITCH.
2 WIRES PER SWITCH.
- 4 POSITION CONNECTED UNIT.
- 5 FASTEN UNIT TO BOX.
2 SCREWS PER UNIT.
- 6 TEST FOR OPERATION.
- 7 INSTALL COVER PLATE.
2 SCREW PER COVER PLATE.
- 8 MATERIAL HANDLING.

GT-157 = .04375 HRS PER JOB
+ .10753 HRS PER UNIT

GT-158

REMOVE DOUBLE POLE SWITCHES OR DUPLEX RECEPTACLES - INCLUDES REMOVAL AND INSTALLATION OF COVER PLATE; DISCONNECT 4 WIRES AND TAPE ENDS.

NO WORK UNIT DESCRIPTION

== =====

- 1 TURN POWER SWITCH OFF AGAIN.
- 2 REMOVE AND REINSTALL COVER PLATES .
2 SCREWS PER COVER PLATE.
- 3 REMOVE UNIT MOUNTING SCREWS.
2 SCREWS PER UNIT.
- 4 PULL CONNECTED UNIT OUT OF BOX.
- 5 DISCONNECT WIRES FROM TERMINAL.
- 6 TAPE WIRE ENDS.
- 7 MATERIAL HANDLING.

GT-158 = .04375 HRS PER JOB
+ .10067 HRS PER UNIT

GT-159

INSTALL EXPLOSION PROOF TWO POLE RECEPTACLE OR SWITCH WITH GASKET TO EXISTING BOX INCLUDING WIRE CONNECTIONS.

- NO WORK UNIT DESCRIPTION
 == =====
- 1 TURN POWER OFF AND ON AGAIN.
 - 2 UNPACK UNIT FROM CARTON .
 - 3 CUT, FORM, ALIGN AND CONNECT WIRE.
2 WIRES PER UNIT.
 - 4 POSITION RECEPTACLE GASKET .
 - 5 INSTALL RECEPTACLE OVER GASKET TO JUNCTION BOX USING FOUR SCREW.
 - 6 MATERIAL HANDLING.

GT-159 = .04375 HRS PER JOB
 + .10249 HRS PER UNIT

GT-166

INSTALL SEAL-OFF FITTINGS AT EXPLOSION PROOF JUNCTION, SWITCH OR OUTLET BOXES ON 1/2" TO 2" CONDUIT RUNS - EXCLUDING PULLING CONDUCTORS AND WIRE CONNECTIONS - LADDER NOT USED

- NO WORK UNIT DESCRIPTION
 == =====
- 1 INSTALL NIPPLES TO BOX HUBS.
 - 2 INSTALL SEALING CONDULETS (FITTINGS) TO NIPPLES.
 - 3 REMOVE AND REPLACE PLUG IN EACH OF FITTINGS.
 - 4 MOVE WIRE LEADS ASIDE IN BOX.
 - 5 PACK FIBROUS FILLER MATERIAL GROUND CONDUCTORS IN EACH HUB.
 - 6 MIX BATCH OF SEALING COMPOUND.
 - 7 POUR SEALING COMPOUND INTO EACH FITTING.
2 APPLICATIONS PER FITTING.

GT-166 = .16502 HRS PER FITTING
 + .02900 HRS PER JOB

GT-168

INSTALL SEAL-OFF FITTINGS AT EXPLOSION PROOF JUNCTION BOX ON 2-1/2" TO 3" CONDUIT RUN - EXCLUDES PULLING CONDUCTORS AND WIRE CONNECTIONS LADDER NOT USED

- NO WORK UNIT DESCRIPTION
 == =====
- 1 INSTALL NIPPLES TO BOX HUB.
 - 2 INSTALL SEALING CONDULETS (FITTINGS) TO NIPPLES.
 - 3 REMOVE AND REPLACE PLUG IN EACH OF FITTINGS.
 - 4 MOVE WIRE LEADS ASIDE IN BOX.
 - 5 PACK FIBROUS FILLER MATERIAL AROUND CONDUCTORS IN EACH HUB.
 - 6 MIX BATCH OF SEALING COMPOUND.
 - 7 POUR SEALING COMPOUND INTO FITTING.
3 APPLICATIONS PER FITTING.

GT-168 = .18915 HRS PER FITTING
 + .02900 HRS PER JOB

GT-175

CUT, SEPARATE, FORM, ALIGN, SKIN AND CONNECT PAIRS OF WIRE ENDS (NO. 8 OR SMALLER, USING WIRE NUTS) AT EACH BOX, NOT USING A LADDER.

- NO WORK UNIT DESCRIPTION
 == =====
- 1 CUT, SEPARATE, FORM, ALIGN, SKIN AND CONNECT PAIRS OF WIRE ENDS (USING-WIRE NUTS) AT EACH BOX.

GT-175 = .00132 HRS PER BOX
 + .02419 HRS PER SPLICE

GT-177

CUT, SEPARATE, FORM, ALIGN, SKIN, CONNECT AND INSULATE PAIRS OF WIRES (NO. 6 WITH SOLDERLESS BOLT TYPE CONNECTORS) AT EACH BOX, WITHOUT USING A LADDER.

- NO WORK UNIT DESCRIPTION
 == =====
- 1 CUT, SEPARATE, FORM AND ALIGN NO. 6 WIRES WITH 6 OF 90 DEGREES BENDS EACH (DIAGONALS USED) AT EACH BOX .
 - 2 INSTALL SOLDERLESS BOLT TYPE WIRE CONNECTORS, INCLUDING SKINNING WIRE ENDS AND INSULATING CONNECTORS, AT EACH BOX.

GT-177 = .00132 HRS PER BOX
 + .06877 HRS PER SPLICE

GT-179

CUT, SEPARATE, FORM, ALIGN, SKIN, CONNECT AND INSULATE PAIRS OF NO. 4 TO 2/0 CIRCUIT WIRE ENDS (USING BOLT-TYPE WIRE CONNECTORS) AT EACH BOX, NOT USING A LADDER.

- NO WORK UNIT DESCRIPTION
 == =====
- 1 CUT, SEPARATE, FORM AND ALIGN PAIRS OF NO. 4 TO 2/0 CIRCUIT WIRE ENDS, WITH 6 OF 90 DEGREES BENDS EACH, AT EACH BOXES (HACKSAW USED).
 - 2 INSTALL SOLDERLESS BOLT-TYPE WIRE CONNECTORS, INCLUDING SKINNING WIRE ENDS AND INSULATING CONNECTORS, AT EACH BOX.

GT-179 = .00269 HRS PER BOX
 + .08883 HRS PER SPLICE

GT-186

CUT, FORM, ALIGN SPLICE, SOLDER AND INSULATE ONE PAIR OF WIRE ENDS (NO. 8 OR SMALLER) WITHOUT USING A LADDER, AT EACH BOX.

NO WORK UNIT DESCRIPTION

- 1 CUT, FORM AND ALIGN TWO WIRES.
2 WIRE ENDS PER BOX.
- 2 SPLICE, SOLDER AND INSULATE ONE PAIR OF WIRE ENDS
1 SPLICE MADE PER BOX.

GT-186 = .07232 HRS PER JOB
+ .09385 HRS PER WIRE

GT-206

MAKE "Y" SPLICES BY ADDING ADDITIONAL WIRE ENDS TO EXISTING STRAIGHT SPLICES WIRE SIZE NO. 8 OR SMALLER) IN BOXES, WITHOUT USING A LADDER. SPLICE q NUMBER OF "Y" SPLICES PER JOB. BOX = NUMBER OF BOXES.

NO WORK UNIT DESCRIPTION

- 1 PULL EXISTING SETS OF SPLICED WIRES OUT OF BOX.
- 2 REMOVE WIRE NUTS AND UNRAVEL SPLICED WIRES.
- 3 CUT, SKIN AND POSITION ADDITIONAL WIRE LEADS AND RESPLICE USING WIRE NUTS.
- 4 REFORM AND REALIGN CONNECTED WIRE LEADS IN BOX.

GT-206 = .05096 HRS PER SPLICE
+ .00132 HRS PER BOX

GT-208

MAKE "Y" SPLICES BY ADDING ADDITIONAL WIRE ENDS TO EXISTING STRAIGHT SPLICES (WIRE SIZE NO. 6) IN BOXES, WITHOUT USING A LADDER. SPLICE = NUMBER OF "Y" SPLICES PER JOB. BOX = NUMBER OF BOXES.

NO WORK UNIT DESCRIPTION

- 1 PULL EXISTING SETS OF CONNECTED WIRES (STRAIGHT SPLICES) OUT OF BOX.
- 2 REMOVE INSULATION FROM CONNECTORS AND REMOVE SOLDERLESS BOLT CONNECTORS.
- 3 CUT, SKIN AND POSITION ADDITIONAL WIRE LEADS, RECONNECT USING SOLDERLESS BOLT CONNECTORS, AND INSULATE CONNECTORS.
- 4 REFORM AND REALIGN CONNECTED WIRE LEADS IN BOX.

GT-208 = .10320 HRS PER SPLICE
+ .00132 HRS PER BOX

GT-210

MAKE "Y" SPLICES BY ADDING ADDITIONAL WIRE ENDS TO EXISTING STRAIGHT SPLICES(WIRE SIZE NO. 4 TO 2/0) IN BOXES, WITHOUT USING A LADDER. SPLICE = NUMBER OF "Y" SPLICES PER JOB. BOX = NUMBER OF BOXES.

NO WORK UNIT DESCRIPTION

- 1 PULL EXISTING SETS OF CONNECTED WIRES (STRAIGHT SPLICES) OUT OF BOX.
- 2 REMOVE INSULATION FROM CONNECTORS AND REMOVE SOLDERLESS BOLT CONNECTORS.
- 3 CUT, SKIN AND POSITION ADDITIONAL WIRE LEADS, RECONNECT USING SOLDERLESS BOLT CONNECTORS AND INSULATE CONNECTIONS.
- 4 REFORM AND REALIGN CONNECTED WIRE LEADS IN BOX.

GT-210 = .12326 HRS PER SPLICE
+ .00269 HRS PER BOX

GT -220

INSTALL WIRE ON POLES FOR FIRE ALARM SYSTEM USING BUCKET TRUCK AND PICKUP; 4 MAN CREW; INCLUDES POLE HARDWARE; STRINGING WIRE, DEAD ENDING WIRE, INSTALLING WIRE AND POLE TIME.

NO WORK UNIT DESCRIPTION

- 1 INSTALL HARDWARE ("J" HOOK) ON POLE.
- 2 PREPARE FIRE ALARM SYSTEM CABLE FOR STRINGING.
- 3 INSTALL DEAD END ON CABLE AT FIRST POLE.
- 4 INSTALL DEAD END CABLE ON LAST POLE.
- 5 INSTALL CABLE ON POLES (CLIPPING IN).
- 6 ADDITIONAL MATERIAL HANDLING.

GT-220 = .80107 HRS PER JOB
+ .19839 HRS PER POLE

GT-240

ASSEMBLE AND INSTALL SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES, FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET. (DOES NOT INCLUDE HOOK-UP TIME). FIXTURE = TOTAL NUMBER OF FLOURESCENT FIXTURES INSTALLED

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON.
- 2 INSTALL MOUNTING BRACKETS FOR FLUORESCENT FIXTURES.
- 3 ASSEMBLE AND HANG OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES WITH TWO OR FOUR, (AVERAGE 3 TUBES) TUBES EACH, FIBER LOCKS AND STARTERS - UNPACKING NOT INCLUDED.

GT-240 = .30331 HRS PER FIXTURE

GT-241

ASSEMBLE AND INSTALL INTERCONNECTED, SURFACE MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES, FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON .
- 2 INSTALL MOUNTING BRACKETS FOR FLUORESCENT FIXTURES
- 3 ASSEMBLE AND HANG OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH , FIBER LOCKS AND STARTERS - UNPACKING NOT INCLUDED.
- 4 REMOVE TWO KNOCKOUT PLUGS FROM EACH OF FIXTURES AND PLATES.
- 5 SPLICE LEAD-IN WIRES FOR MULTIPLE FIXTURE UNIT INSTALLATION IN BOX OR ADJACENT FIXTURE USING PLASTIC HIRE CONNECTOR FOR FIXTURES.
- 6 ALIGN AND CONNECT FLUORESCENT FIXTURES FOR CONTINUOUS ROW INSTALLATIONS.
- 7 PULL TWO LEAD-IN WIRES AN AVERAGE OF SIX FEET THROUGH ADJACENT FIXTURE FOR EACH OF FIXTURES.
- 8 ADJUST AND CUT TWO NO. 8 OR SMALLER LEAD-IN WIRES IN FIXTURE TROUGH PRIOR TO MAKING CONNECTION FOR FIXTURES.

GT-241 = .62759 HRS PER FIXTURE

GT-242

ASSEMBLE AND INSTALL STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FIXTURES, FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET, CONDUCTOR WIRES PULLED. FIXTURE = NUMBER OF FIXTURES TO BE INSTALLED.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON.
- INSTALL MOUNTING BRACKET FOR FLUORESCENT FIXTURES.
- 3 REMOVE AND REINSTALL BEARING NUT ON EACH END OF PREFABRICATED STEM PIECE FOR FIXTURES.
- 4 POSITION STEM PIECE TO BOX COVER PLATE OR HANGER (MOUNTING) BRACKET.
- 5 TIGHTEN BEARING NUT ON EACH END OF STEM PIECE.
- 6 INSTALL BOX COVER PLATE WITH TWO SCREWS EACH FOR FIXTURES.
- 7 ASSEMBLE AND HANG OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FLUORESCENT TYPE FIXTURES WITH TWO OR FOUR TUBES EACH, FIBER LOCKS AND STARTERS. - UNPACKING NOT INCLUDED.
- 8 REMOVE THREE KNOCKOUT PLUGS FROM EACH OF FIXTURES AND PLATES.
- 9 SPLICE LEAD-IN WIRES IN JUNCTION BOX USING PLASTIC WIRE CONNECTOR.
- 10 REMOVE AND REINSTALL INTEGRAL BOX COVER PLATE WITH TWO SCREWS FOR EACH OF FIXTURES.
- 11 PULL TWO LEAD-IN WIRES AN AVERAGE OF TWO FEET THROUGH STEM PIECE FOR EACH FIXTURE.

GT-242 = .67730 HRS PER FIXTURE

GT-243

ASSEMBLE AND INSTALL INTERCONNECTED, STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FIXTURES, FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET, CONDUCTOR WIRES PULLED. FIXTURE = NUMBER OF FIXTURES TO BE INTERCONNECTED

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON.
- 2 INSTALL MOUNTING BRACKET FOR FLUORESCENT FIXTURES.
- 3 REMOVE AND REINSTALL BEARING NUT ON EACH END OF PREFABRICATED STEM PIECE FOR FIXTURES.
- 4 POSITION STEM PIECE TO BOX COVER PLATE OR HANGER (MOUNTING) BRACKET.
- 5 TIGHTEN BEARING NUT ON EACH END OF STEM PIECE.
- 6 INSTALL BOX COVER PLATE WITH TWO SCREWS EACH SET OF INTERCONNECTED FIXTURES.
- 7 ASSEMBLE AND HANG OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH , FIBER LOCKS AND STARTERS - UNPACKING NOT INCLUDED.
- 8 REMOVE THREE KNOCKOUT PLUGS FROM EACH OF FIXTURES AND PLATES.
- 9 SPLICE LEAD-IN WIRES FOR MULTIPLE FIXTURE UNIT INSTALLATION IN BOX OR ADJACENT FIXTURE USING PLASTIC WIRE CONNECTOR FOR FIXTURES.
- 10 ALIGN AND CONNECT FLUORESCENT FIXTURES FOR CONTINUOUS ROW INSTALLATION.
- 11 REMOVE AND REINSTALL INTEGRAL BOX COVER PLATE WITH TWO SCREWS FOR EACH SET OF FIXTURES.
- 12 PULL TWO LEAD-IN WIRES AN AVERAGE OF TWO FEET THROUGH STEM PIECE FOR EACH SET OF FIXTURES.
- 13 PULL TWO LEAD-IN WIRES AN AVERAGE OF SIX FEET THROUGH ADJACENT FIXTURES FOR EACH SET OF FIXTURES
- 14 ADJUST AND CUT TWO NO. 8 OR SMALLER LEAD-IN WIRES IN FIXTURE TROUGH PRIOR TO MAKING CONNECTION FOR FIXTURES.

GT-243 = .94434 HRS PER FIXTURE

GT-244

ASSEMBLE AND INSTALL SURFACE MOUNTED, TWO OR FOUR TUBE , OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES, MOUNTED ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON.
- 2 INSTALL MOUNTING BRACKETS FOR FLUORESCENT FIXTURES
- 3 INSTALL BOX COVER PLATE WITH TWO SCREWS FOR EACH FIXTURE
- 4 ASSEMBLE AND HANG OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FLOURESCENT FIXTURE WITH TWO OR FOUR TUBES EACH , FIBER LOCKS AND STARTERS - UNPACKING NOT INCLUDED .
- 5 REMOVE THREE KNOCKOUT PLUGS FROM EACH FIXTURE AND PLATE.
- 6 SPLICE LEAD- IN WIRES FOR FIXTURE FROM JUNCTION BOX OR ADJACENT FIXTURE USING PLASTIC WIRE CONNECTORS
- 7 REMOVE AND REINSTALL INTEGRAL BOX COVER PLATE WITH TWO SCREW FOR EACH FIXTURE.
- 8 INSTALL CABLE CONNECTOR TO INTEGRAL AND JUNCTION BOXES FOR EACH FIXTURE .

GT-244 = .48239 HRS PER FIXTURE

GT-245

ASSEMBLE AND INSTALL INTERCONNECTED, SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES, MOUNTED ADJACENT TO JUNCTION BOX. FIXTURE = NUMBER OF FIXTURES TO BE INTERCONNECTED

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON.
- 2 INSTALL MOUNTING BRACKETS FOR FLUORESCENT FIXTURES
- 3 INSTALL BOX COVER PLATE WITH TWO SCREWS FOR EACH SET OF FIXTURES.
- 4 ASSEMBLE AND HANG OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH, FIBER LOCKS AND STARTERS. - UNPACKING NOT INCLUDED .
- 5 REMOVE TWO KNOCKOUT PLUGS FROM EACH FIXTURES AND PLATES .
- 6 SPLICE LEAD-IN WIRE FOR STEM OR MULTIPLE FIXTURE UNIT INSTALLING IN BOX OR ADJACENT FIXTURE USING PLASTIC WIRE CONNECTOR FOR FIXTURES.
- 7 REMOVE AND REINSTALL INTEGRAL BOX COVER PLATE WITH TWO SCREW FOR FIXTURES .
- 8 INSTALL CABLE CONNECTOR TO INTEGRAL AND JUNCTION BOXES FOR EACH SET OF FIXTURES.
- 9 ALIGN AND CONNECT FLUORESCENT FIXTURES FOR CONTINUOUS ROW INSTALLATIONS .
- 10 PULL THREE LEAD- IN WIRES AN AVERAGE OF SIX FEET THROUGH AN ADJACENT FIXTURE FOR EACH FIXTURE .
- 11 ADJUST AND CUT THREE #8 OR SMALLER LEAD-IN WIRES IN FIXTURE TROUGH PRIOR TO MAKING CONNECTION FOR FIXTURES .

GT-245 = .87699 HRS PER FIXTURE

GT-246

ASSEMBLE AND INSTALL STEM MOUNTED , TWO OR FOUR TUBE , OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FIXTURES, MOUNTED ADJACENT TO JUNCTION BOX, CONDUCTOR WIRES PULLED . FIXTURE = NUMBER OF FIXTURES TO BE INSTALLED

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE AND UNPACK PARTS FOR FLUORESCENT FIXTURES FROM CARDBOARD CARTON.
- 2 INSTALL MOUNTING BRACKETS FOR FLUORESCENT FIXTURES.
- 3 REMOVE AND REINSTALL BEARING NUT ON EACH END OF PREFABRICATED STEM PIECE FOR FIXTURE .
- 4 POSIT 1ON STEM PIECE TO BOX COVER PLATE OR HANGER (MOUNTING) BRACKET.
- 5 TIGHTEN BEARING NUT ON EACH END OF STEM PIECE.
- 6 INSTALL BOX COVER PLATE WITH TWO SCREWS EACH FOR FIXTURE .
- 7 ASSEMBLE AND HANG OPEN REFLECTOR OR DI FFUSER/LOUVER TYPE FLUORESCENT TYPE FIXTURES WITH TWO OR FOUR TUBES EACH, FIBER LOCKS AND STARTERS - UNPACKING NOT INCLUDED.
- 8 REMOVE THREE KNOCKOUT PLUGS FROM EACH OF FIXTURES AND PLATES.
- 9 SPLICE LEAD-IN WIRES IN JUNCTION BOX USING PLASTIC WIRE CONNECTOR FOR FIXTURES.
- 10 REMOVE AND REINSTALL INTEGRAL BOX COVER PLATE WITH TWO SCREWS FOR EACH OF FIXTURE.
- 11 PULL THREE LEAD-IN WIRES AN AVERAGE OF TWO FEET THROUGH STEM PIECE FOR EACH OF FIXTURES.

GT-246 = .81561 HRS PER FIXTURE

GT-247

ASSEMBLE AND INSTALL INTERCONNECTED , STEM MOUNTED TWO OR FOUR, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FIXTURES, MOUNTED ADJACENT TO JUNCTION BOX, CONDUCTOR WIRES PULLED .

NO WORK UNIT DESCRIPTION

- == =====
- 1 ASSEMBLE AND INSTALL INTERCONNECTED , STEM MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/ LOUVER TYPE FIXTURES, FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET, CONDUCTOR WIRES PULLED .
- 2 INSTALL MOUNTING BRACKET FOR FIXTURE.

GT-247 = .70919 HRS PER FIXTURE

GT -248

ASSEMBLE AND INSTALL SURFACE MOUNTED, OPEN OR CLOSED REFLECTOR FIXTURE, WITH VARIABLE NO. OF BULBS, FASTENED TO OVERHEAD JUNCTION BOX. FIXTURE = NUMBER OF INCANDESCENT FIXTURES TO BE INSTALLED

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND UNPACK PARTS FOR INCANDESCENT FIXTURES FROM CARDBOARD CARTON.
 - 2 INSTALL MOUNTING BRACKETS FOR INCANDESCENT FIXTURES .
 - 3 ASSEMBLE AND HANG INCANDESCENT FIXTURES WITH VARIABLE NO. OF BULBS.
- GT -248 = .20194 HRS PER FIXTURE

GT-249

ASSEMBLE AND INSTALL STEM MOUNTED , OPEN OR CLOSED REFLECTOR FIXTURE , WITH VARIABLE NUMBER OF BULBS, FASTENED TO OVERHEAD JUNCTION BOX. FIXTURE = NUMBER OF FIXTURES TO BE INSTALLED

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND UNPACK PARTS FOR INCANDESCENT FIXTURES FROM CARDBOARD CARTON .
 - 2 REMOVE AND REINSTALL BEARING NUT ON EACH END OF PREFABRICATED STEM PIECE FOR FIXTURES .
 - 3 POSITION STEM PIECE TO BOX COVER PLATE.
 - 4 TIGHTEN BEARING NUT ON EACH END OF STEM PIECE.
 - 5 INSTALL BOX COVER PLATE WITH TWO SCREW EACH FOR FIXTURES.
 - 6 ASSEMBLE AND HANG INCANDESCENT FIXTURES WITH VARIABLE NO. OF BULBS.
 - 7 REMOVE ONE KNOCKOUT PLUG FROM COVER PLATE FOR EACH FIXTURE.
 - 8 REMOVE AND REINSTALL LOUVER, GLASS OR PLASTIC DIFFUSER IN FIXTURES.
 - 9 SPLICE LEAD- IN WIRES IN JUNCTION BOX USING PLASTIC WIRE CONNECTORS .
 - 10 PULL TWO LEAD-IN WIRES AN AVERAGE OF TWO FEET THROUGH STEM PIECE FOR EACH FIXTURE .
- GT - 249 = .49506 HRS PER FIXTURE

GT-250

INSTALL EMERGENCY LIGHT FIXTURE ON CONCRETE BLOCK HALL WITH CONDUIT GOING THROUGH ONE WALL FOR EACH UNIT ADDED TO A CIRCUIT AT PANEL BOX. LIMIT TO 3-UNITS PER PANEL BOX.

NO WORK UNIT DESCRIPTION

- 1 INSTALL CONDUIT TO CONCRETE BLOCK WALL FROM PANEL BOX AND RECEPTACLE AT EMERGENCY LIGHT FIXTURE LOCATION, PULL CIRCUIT WIRE, AND CONNECT LEADS IN OUTLET BOX AND POWER PANEL BOX. SECTION = 10 FOOT SECTION OF EMT CONDUIT.
 - 2 ASSEMBLE , MOUNT ADJACENT TO RECEPTACLE, PLUG-IN AND TEST EMERGENCY LIGHT FIXTURE.
- GT-250 = .39377 HRS PER JOB
+ 1.40768 HRS PER FIXTURE
+ .45322 HRS PER SECTION

GT-256

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE , OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES. FIXTURE = NUMBER OF FIXTURES TO BE REMOVED

NO WORK UNIT DESCRIPTION

- 1 TURN BRANCH CIRCUIT OFF AND ON FOR FIXTURES.
 - 2 REMOVE AND REINSTALL BOX COVER PLATE WITH TWO SCREWS PER BOX, FOR FIXTURES .
 - 3 CUT LEADS IN BOX, TAPE ENDS, AND PUSH BACK INTO OUTLET BOX (TWO WIRES) FOR FIXTURES.
 - 4 REMOVE CABLE CONNECTOR FROM OUTLET AND INTEGRAL BOXES FOR FIXTURES.
 - 5 INSTALL KNOCKOUT HOLE FILLER PLUG IN OUTLET BOX FOR FIXTURES .
 - 6 REMOVE AND REINSTALL LOUVER , GLASS OR PLASTIC DIFFUSER IN FIXTURES.
 - 7 DISASSEMBLE AND REMOVE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH.
- GT-256 = .25763 HRS PER FIXTURE

GT-257

DISASSEMBLE AND REMOVE INTERCONNECTED, SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES. FIXTURE = NUMBER OF INTERCONNECTED FIXTURES TO BE REMOVED. FIXTURES MUST NOT BE LESS THAN TWO.

NO WORK UNIT DESCRIPTION

- 1 TURN BRANCH CIRCUIT OFF AND ON FOR EACH SET OF FIXTURES.
- 2 REMOVE AND REINSTALL BOX COVER PLATE WITH TWO SCREWS PER BOX, FOR EACH SET OF FIXTURES. 2 SCREW PER PLATE TIMES 2 TIMES.
- 3 CUT LEADS IN BOX, TAPE ENDS AND PUSH BACK INTO OUTLET BOX (TWO WIRES) FOR EACH SET OF FIXTURES. 2 WIRES PER JOB.
- 4 REMOVE CABLE CONNECTOR FROM OUTLET AND INTEGRAL BOXES FOR EACH SET OF FIXTURES.
- 5 INSTALL KNOCKOUT HOLE FILLER PLUG IN OUTLET BOX FOR EACH SET OF FIXTURES.
- 6 REMOVE AND REINSTALL LOUVER, GLASS OR PLASTIC DIFFUSER IN EACH FIXTURE.
- 7 DISASSEMBLE AND REMOVE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH (AVE. =3).
- 8 DISCONNECT INTERCONNECTED FIXTURE FROM ADJACENT FIXTURE FOR EACH FIXTURE.
- 9 PULL TWO INTERCONNECTED WIRES OUT OF FIXTURE THROUGH AN AVERAGE OF SIX FEET FOR EACH FIXTURE.

GT-257 = .14653 HRS PER JOB
 + .15445 HRS PER FIXTURE

GT-258

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES, CONDUCTORS IN STEM. FIXTURE = NUMBER OF FIXTURES REMOVED

NO WORK UNIT DESCRIPTION

- 1 TURN BRANCH CIRCUIT OFF AND ON FOR FIXTURES.
- 2 REMOVE AND REINSTALL BOX COVER PLATE WITH TWO SCREW PER BOX, FOR FIXTURES. TWO PLATES AND FOUR SCREWS.
- 3 CUT LEADS IN BOX, TAPE ENDS AND PUSH BACK INTO OUTLET BOX (TWO WIRES FOR FIXTURE).
- 4 INSTALL KNOCKOUT HOLE FILLER PLUG IN OUTLET BOX FOR FIXTURES.
- 5 REMOVE AND REINSTALL LOUVER GLASS OR PLASTIC DIFFUSER IN FIXTURES.
- 6 DISASSEMBLE AND REMOVE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH.
- 7 REMOVE STEM LOCKS AND BEARING NUTS FOR FIXTURES.
- 8 REMOVE STEM PLATE FROM OUTLET BOX PLATE OR MOUNTING BRACKET, TWO SCREWS EACH FOR FIXTURES.
- 9 PULL TWO LEAD-IN WIRES OUT OF STEM AN AVERAGE OF TWO FEET EACH FOR FIXTURES.

GT-258 = .38122 HRS PER FIXTURE

GT-259

DISASSEMBLE AND REMOVE INTERCONNECTED, STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURES, CONDUCTORS IN STEM.

NO WORK UNIT DESCRIPTION

- 1 TURN BRANCH CIRCUIT OFF AND ON FOR EACH SET OF FIXTURES.
- 2 REMOVE AND REINSTALL BOX COVER PLATE WITH TWO SCREWS PER BOX, FOR EACH SET OF FIXTURES. 2 SCREW PER PLATE TIMES 2 TIMES.
- 3 CUT LEADS IN BOX, TAPE ENDS AND PUSH BACK INTO OUTLET BOX (TWO HIRES) FOR EACH SET OF FIXTURES. 2 WIRES PER JOB.
- 4 INSTALL KNOCKOUT HOLE FILLER PLUG IN OUTLET BOX FOR EACH SET OF FIXTURES.
- 5 REMOVE AND REINSTALL LOUVER, GLASS OR PLASTIC DIFFUSER IN EACH FIXTURE.
- 6 DISASSEMBLE AND REMOVE FLUORESCENT FIXTURES WITH TWO OR FOUR TUBES EACH (AVE. = 3).
- 7 REMOVE 2 STEM LOCKS AND 2 BEARING NUTS FOR EACH FIXTURE.
- 8 REMOVE STEM PLATE FROM OUTLET BOX PLATE OR MOUNTING BRACKET, TWO SCREWS EACH, FOR EACH FIXTURE. 2 SCREW PER PLATE TIMES 2 TIMES.
- 9 PULL TWO LEAD-IN WIRES OUT OF STEM AN AVERAGE OF TWO FEET FOR EACH SET OF FIXTURES. 2 FEET PER FIXTURE.
- 10 DISCONNECT INTERCONNECTED FIXTURE FROM ADJACENT FIXTURE FOR EACH FIXTURE.
- 11 PULL TWO INTERCONNECTING WIRES OUT OF FIXTURE THROUGH AN AVERAGE OF SIX FEET FOR EACH FIXTURE. 6 FEET PER FIXTURE.

GT-259 = .06479 HRS PER JOB
 + .21607 HRS PER FIXTURE

GT -260

DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURES.

NO WORK UNIT DESCRIPTION

- 1 TURN BRANCH CIRCUIT OFF AND ON FOR FIXTURES.
- 2 INSTALL OUTLET BOX COVER PLATE, TWO SCREW PER BOX FOR FIXTURES.
- 3 CUT LEADS IN BOX, TAPE ENDS AND PUSH BACK INTO OUTLET BOX (TWO WIRES) FOR FIXTURES.
- 4 DISASSEMBLE AND REMOVE FIXTURES.

GT-260 = .13060 HRS PER FIXTURE

GT-261

DISASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT FIXTURES.

NO WORK UNIT DESCRIPTION

- 1 TURN BRANCH CIRCUIT OFF AND ON FOR FIXTURES.
- 2 INSTALL OUTLET BOX COVER PLATE, TWO SCREWS PER BOX FOR FIXTURES.
- 3 CUT LEADS IN BOX, TAPE ENDS AND PUSH BACK INTO OUTLET BOX (TWO WIRES) FOR FIXTURES.
- 4 DISASSEMBLE AND REMOVE FIXTURES.
- 5 REMOVE STEM LOCK AND BEARING NUTS, FOUR PER STEM FOR FIXTURES.
- 6 REMOVE STEM PLATE FROM OUTLET BOX PLATE OR MOUNTING BRACKET FOR FIXTURES (TWO SCREWS).
- 7 PULL TWO LEAD-IN WIRES OUT OF STEM FOR FIXTURES AN AVERAGE OF TWO FEET.

$$GT-261 = .15621 \text{ HRS PER FIXTURE}$$

GT - 280

RELAMP STANDARD, GLASS DIFFUSED TYPE FLUORESCENT FIXTURE, USING STEPLADDER - RETURN OLD TUBES. LAMP = NUMBER OF TUBES PER FIXTURE. FIXTURE = NUMBER OF FIXTURES.

NO WORK UNIT DESCRIPTION

- 1 CHANGE LAMPS IN FIXTURE. LAMP = NO. OF LAMPS PER FIXTURE.
- 2 REMOVE AND REINSTALL LOUVER OR GLASS DIFFUSER (TWO SECTIONS). BULB = NUMBER OF BULBS PER FIXTURE. FIXTURE = NUMBER OF FIXTURES.

$$GT-280 = .01438 \text{ HRS PER FIXTURE} + .02317 \text{ HRS PER LAMP}$$

GT-281

RELAMP STANDARD OPEN REFLECTOR TYPE FLUORESCENT FIXTURE USING STEPLADDER - RETURN OLD TUBES FIXTURE = NUMBER OF FIXTURES.

NO WORK UNIT DESCRIPTION

- 1 CHANGE LAMPS IN FIXTURE. LAMP = NO. OF LAMPS PER FIXTURE. FIXTURE = NO. OF FIXTURES.

$$GT-281 = .00612 \text{ HRS PER FIXTURE} + .02317 \text{ HRS PER LAMP}$$

GT-282

RELAMP VAPOR (SEALED) TYPE FLUORESCENT FIXTURES USING STEPLADDER - RETURN OLD TUBES.

NO WORK UNIT DESCRIPTION

- 1 CHANGE LAMPS IN FIXTURES. USING STEPLADDER.
- 2 DISENGAGE AND REPOSITION. THREE (3) COVER LOCKS. SPRING CLIPS.

$$GT-282 = .04407 \text{ HRS PER FIXTURE} + .02317 \text{ HRS PER LAMP}$$

GT-283

RELAMP INCANDESCENT EXPLOSION PROOF TYPE FIXTURES WITH UP TO 300 WATT BULBS USING STEPLADDER.

NO WORK UNIT DESCRIPTION

- 1 CHANGE BULB IN EXPLOSIVE PROOF FIXTURE USING STEPLADDER .

$$GT-283 = .03910 \text{ HRS PER FIXTURE}$$

GT -284

RELAMP INCANDESCENT OPEN REFLECTOR TYPE FIXTURES; WITH UP TO 300 WATT BULBS, NO LADDER.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL BULB, LADDER NOT USED.

$$GT-284 = .00456 \text{ HRS PER FIXTURE}$$

GT -285

RELAMP INCANDESCENT, FROSTED GLOBE ENCLOSED TYPE FIXTURE; WITH UP TO 300 WATT BULBS - USING LADDER

NO WORK UNIT DESCRIPTION

- 1 CHANGE BULB IN FROSTED GLOBE USING STEPLADDER.

$$GT-285 = .03422 \text{ HRS PER FIXTURE}$$

GT-286

RELAMP INCANDESCENT VAPOR-PROOF TYPE FIXTURES; WITH UP TO 300 WATT BULBS USED - USING LADDER.

NO WORK UNIT DESCRIPTION

- 1 CHANGE BULB IN VAPOR-PROOF FIXTURE USING STEPLADDER.

$$GT-286 = .03030 \text{ HRS PER FIXTURE}$$

GT-287

RELAMP INCANDESCENT, FLUSH MOUNTED, GLASS DIFFUSED TYPE FIXTURES WITH UP TO 300 WATT BULBS LADDER USED

NO WORK UNIT DESCRIPTION
 == =====
 1 CHANGE BULB IN FLUSH TYPE FIXTURE USING LADDER.

GT-287 = .05281 HRS PER FIXTURE

GT-293

RELAMP ONE FLOODLAMP ON BUILDING OR POLE USING HYDRAULIC BUCKET ON BUCKET TRUCK (TWO MEN)

NO WORK UNIT DESCRIPTION
 == =====
 1 REMOVE AND REINSTALL FLOODLIGHT LAMP ON WILDING.

GT-293 = .18926 HRS PER LAMP

GT-289

RELAMP INCANDESCENT FIXTURES USING 9' BULB CHANGER WITH UP TO 750 WATT BULBS.

NO WORK UNIT DESCRIPTION
 == =====
 1 CHANGE ONE LAMP USING BULB CHANGER.

GT -289 = .02210 HRS PER FIXTURE

GT-300

FLUORESCENT FIXTURE REMOVE AND INSTALL/REINSTALL 4' FLOURESCENT TUBE. TEST FIXTURE AFTER REPAIRS

NO WORK UNIT DESCRIPTION
 == =====
 1 REMOVE AND INSTALL/REINSTALL LOUVER , OR DIFFUSER
 2 REMOVE AND INSTALL/REINSTALL 4' FLUORESCENT TUBE
 3 TEST FIXTURE AFTER REPAIRS

GT-300 = .01947 HRS PER FIXTURE
 + .06479 HRS PER TUBE

GT - 290

RELAMP INCANDESCENT FIXTURES USING 18' BULB CHANGER; WITH UP TO 750 WATT BULBS.

NO WORK UNIT DESCRIPTION
 == =====
 1 CHANGE ONE LAMP USING BULB CHANGER.

GT-290 = .02944 HRS PER FIXTURE

GT-301

FLUORESCENT FIXTURE COMPONENTS REMOVE AND REPLACE BALLAST (INCLUDES REMOVAL AND REINSTALLATION OF LOUVER , FLUORESCENT TUBES, BALLAST AND TESTING)

NO WORK UNIT DESCRIPTION
 == =====
 1 REMOVE AND REINSTALL LOUVER, 4' FLUORESCENT TUBE, AND TEST AFTER REPAIR.
 2 REMOVE OLD AND INSTALL NEW BALLAST

GT-301 = .05474 HRS PER FIXTURE
 + .06479 HRS PER TUBE
 + .51441 HRS PER BALLAST

GT-291

RELAMP LAMP INCANDESCENT FIXTURE USING 27' BULB CHANGER, WITH UP TO 750 WATT BULBS.

NO WORK UNIT DESCRIPTION
 == =====
 1 CHANGE ONE LAMP USING 27' BULB CHANGER.

GT-291 = .03654 HRS PER FIXTURE

GT-302

FLUORESCENT FIXTURE COMPONENTS REMOVE AND REPLACE STARTER (INCLUDES REMOVAL AND REINSTALLATION OF LOUVER, FLUORESCENT TUBES, STARTER AND TESTING)

NO WORK UNIT DESCRIPTION
 == =====
 1 REMOVE AND REINSTALL LOUVER, 4' FLUORESCENT TUBE, AND TEST AFTER REPAIR.
 2 REMOVE OLD AND INSTALL NEW STARTER

GT-302 = .01947 HRS PER FIXTURE
 + .06479 HRS PER TUBE
 + .00372 HRS PER STARTER

GT-292

RELAMP FLOODLAMPS ON TOWER (60' -80' HEIGHT) WITH HYDRAULIC EXTENSION LADDER TO TOWER LADDER, ONE BOX OF TWELVE BULBS

NO WORK UNIT DESCRIPTION
 == =====
 1 REMOVE AND REINSTALL FLOODLIGHT BULBS ON TOWER (60' -80').
 BOX = NO. OF BOXES OF BULBS.

GT-292 = .21880 HRS PER JOB
 + .02752 HRS PER BULBS
 + .03796 HRS PER BOX

GT-302

FLUORESCENT FIXTURE COMPONENTS REMOVE AND REPLACE STARTER (INCLUDES REMOVAL AND REINSTALLATION OF LOUVER, FLUORESCENT TUBES, STARTER AND TESTING)

NO WORK UNIT DESCRIPTION
 == =====
 1 REMOVE AND REINSTALL LOUVER, 4' FLUORESCENT TUBE, AND TEST AFTER REPAIR.
 2 REMOVE OLD AND INSTALL NEW STARTER

GT-302 = .01947 HRS PER FIXTURE
 + .06479 HRS PER TUBE
 + .00372 HRS PER STARTER

GT-303

FLUORESCENT FIXTURE COMPONENTS REMOVE AND REPLACE SOCKET (INCLUDES REMOVAL AND REINSTALLATION OF LOUVER , FLUORESCENT TUBES, STARTER, SOCKET AND TESTING)

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE AND REINSTALL LOUVER, 4' FLUORESCENT TUBE, STARTER AND TEST AFTER REPAIRS
- 2 REMOVE OLD AND INSTALL NEW SOCKET

GT-303 = .03655 HRS PER FIXTURE
 + .06479 HRS PER TUBE
 + .04471 HRS PER SOCKET

GT-315

LOAD AND UNLOAD AND COMPLETELY PREPARE ONE (1) LIGHT COIL (LESS THAN 100 LBS.) OF NO. 6 THROUGH NO. 1 CABLE OR WIRE CONDUCTOR FOR UNWINDING AND WINDUP EXCESS AFTER USE. ASSEMBLY AND DISASSEMBLY OF WINCH NOT INCLUDED.

NO WORK UNIT DESCRIPTION

== =====

- 1 MATERIAL HANDLING - REEL.
- 2 MATERIAL HANDLING - COIL.
- 3 PREPARE COIL OF CABLE ON PORTABLE PAYOUT REEL FOR UNWINDING AND WIND UP EXCESS AFTER USE.

GT-315 = .39544 HRS PER JOB

GT-316

LOAD AND UNLOAD ONE (1) PARTIALLY USED HEAVY REEL (OVER 100 LBS.) OF NO. 1/0 THRU NO. 4/0 CABLE OR WIRE CONDUCTOR . ASSEMBLY AND DISASSEMBLY OF DERRICK OR WINCH NOT INCLUDED.

NO WORK UNIT DESCRIPTION

== =====

- 1 LOAD AND UNLOAD HEAVY REEL OF CABLE OF WIRE (OVER 100 LBS.) ON AND OFF TRUCK AT STORAGE AND WORK SITES.
- 2 MATERIAL HANDLING - SLINGS AND SPINDLE.

GT-316 = 1.14478 HRS PER JOB

GT-317

LOAD AND UNLOAD AND COMPLETELY PREPARE ONE (1) HEAVY NEW COIL (OVER 100 LBS.)OF NO. 6 TO NO. 1/0 CABLE OR WIRE CONDUCTOR FOR UNWINDING AND WIND UP EXCESS AFTER USE . ASSEMBLY AND DISASSEMBLY OF WINCH NOT INCLUDED.

NO WORK UNIT DESCRIPTION

== =====

- 1 LOAD AND UNLOAD HEAVY COIL (OVER 100 LBS.) OF WIRE OR CABLE ON AND OFF TRUCK AT STORAGE AND WORK SITES.
- 2 PREPARE COIL OF CABLE OR WIRE ON PORTABLE PAYOUT REEL FOR UNWINDING AND WIND UP EXCESS AFTER USE.
- 3 MATERIAL HANDLING - REEL.

GT-317 = 1.36757 HRS PER JOB

GT-318

LOAD AND UNLOAD AND COMPLETELY PREPARE ONE (1) HEAVY NEW REEL (OVER 100 LBS.) OF NO. 1/0 THRU NO. 4/0 CABLE OR WIRE CONDUCTOR FOR UNWINDING AND WINDUP EXCESS AFTER USE . ASSEMBLY AND DISASSEMBLY OF DERRICK NOT INCLUDED.

NO WORK UNIT DESCRIPTION

== =====

- 1 LOAD AND UNLOAD HEAVY REEL OF CABLE OR WIRE (100 LBS. OR MORE) ON AND OFF TRUCK AT STORAGE SITES.
- 2 LOAD AND UNLOAD HEAVY REEL OF CABLE OR WIRE (100 LBS. OR MORE) AND COMPLETELY PREPARE FOR UNWINDING AND WIND UP EXCESS AFTER USE.
- 3 MATERIALS HANDLING - SLINGS AND SPINDLE.

GT-318 = 1.92777 HRS PER JOB

GT-319

STRING 1 CONDUCTOR OF NO. 6 TO NO. 1 WIRE ACROSS SPANS AND CONNECT TO PREINSTALLED INSULATORS. LOAD, UNLOAD AND PREPARE PARTIAL COIL; WIND , LOAD AND UNLOAD EXCESS WIRE; ENERGIZED SYSTEM .

NO WORK UNIT DESCRIPTION

== =====

- 1 LOAD , UNLOAD AND PREPARE PARTIAL COIL (UNDER 100 LBS.) AND PAYOUT REEL FOR PULLING OUT; LATER WIND UP EXCESS WIRE , LOAD AND UNLOAD.
- 2 PULL OUT FIRST 50 FT. OF CONDUCTOR AND REEVE THROUGH PULLEY INSTALLED ON SUPPLY POLE,
- 3 PULL OUT CONDUCTOR MANUALLY (PER SPAN) .
- 4 RAISE CONDUCTOR OVER CROSSARM ON INTERMEDIATE POLE INCLUDES WALKING AND CLIMBING.
- 5 INSTALL CONDUCTORS TO INSULATORS ON INTERMEDIATE POLE USING TIE WIRE.
- 6 INSTALL CONDUCTOR TO SUPPLY AND TERMINAL POLES .
- 7 INSTALL AND REMOVE SAG GAUGE AND TARGET . ADJUST SAG .
- 8 MAKE AND INSTALL ONE CONNECTING JUMPER.
- 9 RAISE BUNDLE WITH HANDLINE.
- 10 MATERIAL HANDLING.

GT-319 = 1.85778 HRS PER JOB
 + .35200 HRS PER SPAN

GT-320

STRING ADDITIONAL CONDUCTOR OF NO. 6 TO NO. WIRE ACROSS SPANS AND CONNECT TO PREINSTALLED INSULATOR LOAD , UNLOAD AND PREPARE ONE PARTIAL COIL AND PREPARE NEW COIL. WIND, LOAD AND UNLOAD EXCESS WIRE. ENERGIZED SYSTEM.
PER EACH ADDITIONAL CONDUCTOR

NO	WORK UNIT DESCRIPTION
1	LOAD , UNLOAD AND PREPARE CONDUCTOR AND PAY-OUT REEL
2	PULL OUT FIRST FIFTY FEET OF ADDITIONAL CONDUCTOR
3	MANUALLY PULL OUT CONDUCTORS PER SPAN
4	RAISE CONDUCTORS OVER CROSS ARM
5	INSTALL SECOND CONDUCTOR
6	INSTALL CONDUCTORS TO INSULATORS ON INTERMEDIATE POLES USING TIE WIRE
7	MAKE UP AND INSTALL JUMPERS
8	RAISE MATERIAL WITH HANDLINE ONE BUNDLES
9	ADDITIONAL MATERIAL HANDLING

GT-320 = 1.12148 HRS PER JOB
+ .22235 HRS PER SPAN

GT-323

STRING 1 NO. 1/O TO NO. 4/O CONDUCTOR ACROSS 1 TO 4 SPANS AND CONNECT TO PREINSTALLED INSULATORS. LOAD AND UNLOAD PARTIAL REEL. WIND, LOAD, UNLOAD EXCESS WIRE. ENERGIZED SYSTEM.

NO	WORK UNIT DESCRIPTION
1	LOAD AND UNLOAD HEAVY (OVER 100 LBS .) PARTIAL REEL OF CONDUCTOR AND REEL JACKS AND SET UP FOR PULLING OUT; LATER WIND UP EXCESS b/IRE, LOAD AND UNLOAD .
2	PULL OUT (1ST) 50 FT. OF CONDUCTOR, REEVE THROUGH PULLEY INSTALLED ON SUPPLY CONNECTION POLE.
3	PULL OUT CONDUCTOR MANUALLY - PER SPAN.
4	RAISE CONDUCTOR OVER X-ARM ON INTERMEDIATE POLES - INCLUDES WALKING AND CLIMBING.
5	INSTALL CONDUCTOR TO INSULATOR ON NEW TERMINAL POLE .
6	INSTALL CONDUCTOR TO INSULATOR ON INTERMEDIATE POLES - USING HIRE TIE.
7	TAKE UP SLACK IN CONDUCTOR - USING RATCHET HOIST.
8	INSTALL AND REMOVE SAG GAUGE AND TARGET, ADJUST CONDUCTOR .
9	INSTALL CONDUCTOR TO INSULATOR ON (SUPPLY) CONNECTION POLE - USING RATCHET HOIST.
10	MAKE UP AND INSTALL CONNECTING JUMPER.
11	RAISE BUNDLES OF MATERIAL WITH HANDLINE.
12	MATERIAL HANDLING.

GT-323 = 2.90856 HRS PER JOB
+ .73237 HRS PER SPAN

GT-324

STRING ADDITIONAL NUMBER 1/O TO 4/O CONDUCTOR ACROSS ONE TO FOUR SPANS AND CONNECT TO PRE-INSTALLED INSULATORS . ENERGIZED SYSTEM PER EACH ADDITIONAL CONDUCTOR

NO	WORK UNIT DESCRIPTION
1	LOAD , UNLOAD AND PREPARE PARTIAL COIL AND PAYOUT REEL
2	PULL OUT FIRST FIFTY FEET OF CONDUCTOR AND REEVE THROUGH PULLEY
3	MANUALLY PULL OUT CONDUCTOR PER SPAN
4	RAISE CONDUCTOR OVER CROSSARM ON INTERMEDIATE POLE
5	INSTALL CONDUCTOR TO INSULATOR ON TERMINAL POLE
6	INSTALL CONDUCTOR TO INSULATOR ON INTERMEDIATE POLES USING TIE WIRES
7	TAKE UP SLACK IN CONDUCTOR WITH RATCHETT HOIST
8	INSTALL CONDUCTOR TO INSULATOR ON SUPPLY POLE WITH RATCHETT HOIST
9	MAKE UP AND INSTALL CONNECTING JUMPER
10	RAISE BUNDLES OF MATERIAL WITH HANDLINE
11	ADDITIONAL MATERIAL HANDLING

GT-324 = 2.15922 HRS PER JOB
+ .68539 HRS PER SPAN

GT-327

DISCONNECT AND REMOVE ONE NO. 6 TO NO. 1 CONDUCTOR FROM SPANS. WIND, LOAD, UNLOAD WIRE. ENERGIZED SYSTEM.

NO	WORK UNIT DESCRIPTION
1	DON AND REMOVE CLIMBING GEAR; CLIMB UP AND DOWN TO LOWER CROSS-ARM.
2	CLIMB UP AND DOWN THRU OBSTRUCTED AREA.
3	CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE.
4	INSTALL AND REMOVE (6) RUBBER HOSE LINE INSULATORS AND (3) INSULATOR HOODS.
5	REMOVE (1) CONDUCTOR FROM TERMINAL FITTINGS, POLES
6	REMOVE TIE WIRE FROM INSULATORS.
7	SET REEL JACKS AND POSITION EMPTY REEL.
8	REEL IN CONDUCTOR MANUALLY, PER SPAN.
8	LOAD AND UNLOAD HEAVY REELS OF CONDUCTOR, USING WINCH.
10	MATERIAL HANDLING (EMPTY REELS, ETC.) .

GT-327 = .14437 HRS PER SPAN
+ 1.45283 HRS PER JOB

GT-328

DISCONNECT AND REMOVE ADDITIONAL NO. 6 TO NO. 1 CONDUCTORS FROM 1 TO 4 SPANS. WIND UP, LOAD AND UNLOAD . ENERGI ZED SYSTEM. PER EACH ADDITIONAL CONDUCTOR

NO WORK UNIT DESCRIPTION

- 1 CLIMB UP AND DOWN THROUGH OBSTRUCTED AREA
- 2 INSTALL AND REMOVE SIX RUBBER HOSE LINE INSULATORS AND THREE INSULATOR HOODS
- 3 REMOVE ADDITIONAL CONDUCTOR FROM POLES
- 4 REMOVE TIE WIRE FROM INSULATORS
- 5 SET REEL JACKS AND POSIT ION EMPTY REEL
- 6 MANUALLY REEL IN CONDUCTOR
- 7 LOAD AND UNLOAD CONDUCTOR REELS WITH WINCH
- 8 ADDITIONAL MATERIAL HANDLING

GT-328 = 1.30314 HRS PER JOB
 + .05350 HRS PER SPAN

GT-331

DISCONNECT AND REMOVE 1 NO. 1/O TO 4/O CONDUCTOR FROM SPANS. WIND, LOAD AND UNLOAD WIRE. ENERGI ZED SYSTEM.

NO WORK UNIT DESCRIPTION

- 1 DON AND REMOVE CLIMBING GEAR, CLIMB UP AND DOWN TO LOWER CROSS-ARM.
- 2 CLIMB UP AND DOWN THROUGH OBSTRUCTED AREA.
- 3 CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE.
- 4 INSTALL AND REMOVE SIX RUBBER HOSE LINE INSULATORS AND THREE INSULATOR HOODS .
- 5 REMOVE ONE CONDUCTOR FROM TERMINAL FITTINGS .
- 6 REMOVE TIE WIRE FROM INSULATORS.
- 7 SET REEL JACKS AND POSITION EMPTY REEL.
- 8 REEL IN CONDUCTOR MANUALLY, PER SPAN OF CONDUCTOR.
- 9 LOAD AND UNLOAD ONE HEAVY REEL OF CONDUCTOR , USING WINCH .
- 10 MATERIAL HANDLING (EMPTY REEL, ETC.) .

GT-331 = .14437 HRS PER SPAN
 + 1.45283 HRS PER JOB

GT-332

DISCONNECT AND REMOVE ADDITIONAL NUMBER 1/O TO 4/O CONDUCTOR FROM SPANS . WIND, LOAD AND UNLOAD WIRE ENERGI ZED SYSTEM PER EACH ADDITIONAL CONDUCTOR REMOVED

NO WORK UNIT DESCRIPTION

- 1 CLIMB UP AND DOWN THROUGH OBSTRUCTED AREA
- 2 INSTALL AND REMOVE RUBBER HOSE LINE INSULATORS AND HOODS
- 3 REMOVE CONDUCTOR FROM TERMINAL FITTING
- 4 REMOVE TIE WIRE FROM INSULATORS
- 5 REEL IN CONDUCTOR MANUALLY
- 6 LOAD AND UNLOAD REEL OF CONDUCTOR
- 7 ADDITIONAL MATERIAL HANDLING (EMPTY REEL, ETC)

GT-332 = 1.04911 HRS PER JOB
 + .05350 HRS PER SPAN

GT-340

INSTALL SINGLE CROSS-ARM POLES, EACH WITH PINS AND INSULATORS. EXCAVATION AND BACKFILL INCLUDED. CROSS-ARM INSTALLED ON GROUND .

NO WORK UNIT DESCRIPTION

- 1 DIG POLE HOLE (20 CF).
- 2 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD AT WORK SITE.
- 3 INSTALL SINGLE CROSSARM AND ANGLE BRACE - INCLUDES GAINING AND DRILLING.
- 4 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO TRUCK.
- 5 SET POLE USING POLE DERRICK.
- 6 HOVE TRUCK ONE SPAN AND RETURN TRUCK STOPS .
- 7 CL IMP UP AND DOWN POLE - INCLUDES DONNING AND REMOVING CLIMBING GEAR PER CLIMB.
- 8 INSTALL OR REMOVE FOUR PINS AND INSULATOR (HV) .
- 9 ATTACH TWO IDENTIFICATION MARKERS TO POLE.
- 10 BACKFILL AND TAMP AROUND POLE.

GT-340 = 3.48358 HRS PER POLE
 + .94427 HRS PER JOB
 + .05635 HRS PER PIN

GT-341

INSTALL DOUBLE CROSS-ARM POLES, EACH WITH PINS AND INSULATORS. EXCAVATION AND BACKFILL INCLUDED. CROSS-ARM INSTALLED ON GROUND .

NO WORK UNIT DESCRIPTION

- 1 DIG POLE HOLE.
- 2 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD AT WORK SITE.
- 3 INSTALL DOUBLE CROSSARM AND ANGLE BRACE - INCLUDES GAINING AND DRILLING.
- 4 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO TRUCK.
- 5 SET POLE USING POLE DERRICK .
- 6 MOVE TRUCK ONE SPAN AND RETURN TRUCK STOPS .
- 7 CLIMB UP AND DOWN POLE - INCLUDES DONNING AND REMOVING CLIMBING GEAR.
- 8 INSTALL ONE HIGH VOLTAGE PIN AND INSULATOR .
- 9 ATTACH TWO IDENTIFICATION MARKERS TO POLE.
- 10 BACKFILL AND TAMP AROUND POLE.

GT-341 = 3.98314 HRS PER POLE
 + .94427 HRS PER JOB
 + .05635 HRS PER PIN

GT-342

INSTALL POLES, EACH WITH TWO SINGLE CROSS-ARMS. EACH POLE CARRIES PINS AND INSULATORS . CROSS-ARMS ARE INSTALLED ON THE GROUND.

NO WORK UNIT DESCRIPTION

- 1 DIG POLE HOLE (20 CF).
- 2 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD AT WORK SITE.
- 3 INSTALL SINGLE CROSS-ARMS AND ANGLE BRACES - INCLUDES GAINING AND DRILLING POLES.
- 4 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK .
- 5 SET POLE USING POLE DERRICK.
- 6 MOVE TRUCK ONE SPAN AND RETURN TRUCK STOPS .
- 7 CLIMB UP AND DOWN POLE - INCLUDES DONNING AND REMOVING CLIMBING GEAR .
- 8 CLIMB FROM LOWER CROSS-ARM TO UPPER THROUGH OBSTRUCTED AREA AND RETURN .
- 9 INSTALL ONE HIGH VOLTAGE PIN AND INSULATOR .
- 10 ATTACH TWO IDENTIFICATION MARKERS TO POLE.
- 11 BACKFILL AND TAMP AROUND POLE.

GT-342 = 3.83412 HRS PER POLE
 + .94427 HRS PER JOB
 + .05635 HRS PER PIN

GT-343

INSTALL POLES, EACH WITH TWO DOUBLE CROSS-ARMS. EACH POLE CARRIES PINS AND INSULATORS . CROSS-ARMS ARE INSTALLED ON THE GROUND.

NO WORK UNIT DESCRIPTION

- 1 DIG POLE HOLE (20 CF).
- 2 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD TRUCK AT WORK SITE.
- 3 INSTALL DOUBLE CROSS-ARMS AND ANGLE BRACES - INCLUDES GAINING AND DRILLING POLES.
- 4 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK .
SET POLE USING POLE DERRICK.
- 6 MOVE TRUCK ONE SPAN AND RETURN TRUCK STOPS .
- 7 CLIMB UP AND DOWN POLE - INCLUDES DONNING AND REMOVING CLIMBING GEAR.
- 8 CLIMB FROM LOWER CROSS-ARM TO UPPER THROUGH OBSTRUCTED AREA AND RETURN .
INSTALL ONE HIGH VOLTAGE PIN AND INSULATOR.
- 10 ATTACH TWO IDENTIFICATION MARKERS TO POLE .
- 11 BACKFILL AND TAMP AROUND POLE.

GT-343 = 4.83324 HRS PER POLE
 + .94427 HRS PER JOB
 + .05635 HRS PER PIN

GT-344

INSTALL COMMUNICANT IONS TYPE POLES. TWO INSULATOR BRACKETS AND INSULATORS INSTALLED ON GROUND . INCLUDES EXCAVATION AND BACKFILL.

NO WORK UNIT DESCRIPTION

- 1 DIG POLE HOLE (20 CF) .
- 2 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD AT WORK SITE.
- 3 INSTALL INSULATOR BRACKET WITH INSULATOR.
- 4 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK.
- 5 SET POLE USING POLE DERRICK.
- 6 MOVE TRUCK ONE SPAN AND RETURN TRUCK STOPS .
- 7 ATTACH TWO IDENTIFICATION MARKERS TO POLE.
- 8 BACKFILL AND TAMP AROUND POLE.

GT-344 = 3.16047 HRS PER POLE
 + .94427 HRS PER JOB

GT-350

REMOVE POLE WITH POLE DERRICK. REMOVE ONE SINGLE CROSS-ARM AND BRACE. REMOVE PINS AND INSULATORS FROM EACH POLE.

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO TRUCK.
- 2 REMOVE POLE - INCLUDING PARTIAL EXCAVATION.
- 3 REMOVE SINGLE CROSS-ARM WITH ANGLE BRACE.
- 4 REMOVE HIGH VOLTAGE PINS AND INSULATORS.
- 5 LOAD POLES ON TRUCK AND UNLOAD.
- 6 BACKFILL HOLE.
- 7 MOVE TRUCK TO NEXT POLE AND RETURN TRUCK STOPS.
- 8 MATERIAL HANDLING.

GT-350 = .94427 HRS PER JOB
 + 2.15258 HRS PER POLE
 + .05635 HRS PER PIN

GT-351

REMOVE POLE WITH POLE DERRICK. REMOVE ONE DOUBLE CROSS-ARM AND BRACE. REMOVE PINS AND INSULATORS FROM EACH POLE.

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK.
- 2 REMOVE POLE WITH DERRICK - INCLUDES EXCAVATION .
- 3 REMOVE DOUBLE CROSS-ARM AND ANGLE BRACE.
- 4 REMOVE HIGH VOLTAGE PINS AND INSULATORS.
- 5 LOAD POLES ON TRUCK AND UNLOAD.
- 6 BACKFILL HOLE AND TAMP.
- 7 MOVE TRUCK TO NEXT POLE AND RETURN TRUCK STOPS.
- 8 MATERIALS HANDLING.

GT-351 = .94427 HRS PER JOB
 + 2.43596 HRS PER POLE
 + .05635 HRS PER PIN

GT-352

REMOVE POLE WITH POLE DERRICK. REMOVE TWO SINGLE CROSS-ARMS AND BRACES. REMOVE PINS AND INSULATORS FROM EACH POLE .

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO TRUCK.
- 2 REMOVE POLE - INCLUDES PARTIAL EXCAVATION .
- 3 REMOVE SINGLE CROSS-ARM WITH ANGLE BRACE.
- 4 REMOVE HIGH VOLTAGE PINS AND INSULATORS.
- 5 LOAD POLES ON TRUCK AND UNLOAD.
- 6 BACKFILL HOLE AND TAMP.
- 7 MOVE TRUCK TO NEXT POLE AND RETURN TRUCK STOPS.
- 8 MATERIALS HANDLING.

GT-352 = .94427 HRS PER JOB
 + 2.30600 HRS PER POLE
 + .05635 HRS PER PIN

GT-353

REMOVE POLE WITH POLE DERRICK. REMOVE TWO DOUBLE CROSS-ARMS AND BRACES . REMOVE PINS AND INSULATORS FROM EACH POLE.

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO TRUCK.
- 2 REMOVE POLE - INCLUDES PARTIAL EXCAVATION.
- 3 REMOVE DOUBLE CROSS-ARM AND ANGLE BRACE.
- 4 REMOVE HIGH VOLTAGE PINS AND INSULATORS.
- 5 LOAD POLES ON TRUCK AND UNLOAD.
- 6 BACKFILL HOLE AND TAMP .
- 7 MOVE TRUCK TO NEXT POLE AND RETURN TRUCK STOPS.
- 8 MATERIALS HANDLING.

GT-353 = .94427 HRS PER JOB
 + 2.87276 HRS PER POLE
 + .05635 HRS PER PIN

GT-354

REMOVE COMMUNICATIONS POLE WITH POLE DERRICK. REMOVE TWO PINS AND INSULATORS FROM EACH POLE.

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK.
- 2 REMOVE POLE WITH DERRICK - INCLUDES EXCAVATION.
- 3 REMOVE TWO LOU VOLTAGE PINS AND INSULATORS.
- 4 LOAD POLES ON TRUCK AND UNLOAD.
- 5 BACKFILL AND TAMP HOLE .
- 6 MOVE TRUCK TO NEXT POLE AND RETURN.
- 7 MATERIALS HANDLING.

GT-354 = .94427 HRS PER JOB
 + 2.08794 HRS PER POLE

GT-355

INSTALL POLE IN GROUND USING LINE TRUCK WITH HYDRAULICALLY OPERATED DERRICK - INCLUDES DRILLING HOLE. POLE TO HAVE ONLY GROUND WIRE AND STEPS INSTALLED ON IT. 3 MAN CREW.

NO WORK UNIT DESCRIPTION

- 1 LOAD POLE ON TRUCK AND TRAILER AND UNLOAD AT WORK-SITE.
- 2 POSITION 3/16" DIA. GROUND HIRE ON POLE IN HORIZONTAL POSITION - UNOBSTRUCTED.
- 3 INSTALL GROUND HIRE ON 40' POLE LYING IN HORIZONTAL POSITION - UNOBSTRUCTED .
- 4 SET UP LINE TRUCK INCLUDING RAISING AND LOWERING OF OUTRIGGERS - DOES NOT INCLUDE BUCKET TIME.
- 5 POSITION HYDRAULIC DERRICK FOR DRILLING OPERATIONS
- 6 BORE HOLE 6' DEEP BY 18" TO 24" DIA. IN AVERAGE SOIL, UNOBSTRUCTED , USING MECHANICAL EARTH BORER, TRUCK MOUNTED - DOES NOT INCLUDE POSITIONING OF BOOM.
- 7 REMOVE AUGER FROM HOLE AND PUT IN TRAVEL POSITION ON BROOM .
- 8 INSTALL POLE STEPS ON 40' POLE LYING IN HORIZONTAL POSITION - UNOBSTRUCTED .
- 9 INSTALL POLE IN HOLE USING LINE TRUCK WITH HYDRAULICALLY OPERATED DERRICK WITH GRABBER BARS ON BOOM.
- 10 BACKFILL HOLE AND TAMP (MANUALLY) .

GT -355 = .23685 HRS PER JOB
 + 1.34019 HRS PER POLE

GT-360

REMOVE OLD AND REINSTALL ONE NEW INTERMEDIATE LINE POLE WITH ONE SINGLE CROSSARM CARRYING CONDUCTORS

- | NO | WORK UNIT DESCRIPTION |
|----|--|
| 1 | ASSEMBLE POLE DERRICK TO LINE TRUCK AND DISASSEMBLE . |
| 2 | LOAD POLES ON TRUCK AND TRAILER AND UNLOAD. |
| 3 | DIG POLE HOLE (20 CF). |
| 4 | POSITION POLE ON GROUND. |
| 5 | SET POLE IN OBSTRUCTED AREA USING POLE DERRICK. |
| 6 | BACKFILL AND TAMP AROUND POLE . |
| 7 | TRANSFER POLE IDENTIFICATION MARKINGS TO NEW POLE. |
| 8 | DON AND REMOVE CLIMBING GEAR. CLIMB UP AND DOWN POLE TO CROSSARM . |
| 9 | CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE. |
| 10 | CLIMB TO AND FROM DIFFERENT LEVELS THRU OBSTRUCTED AREA . |
| 11 | RAISE, INSTALL, REMOVE AND LOWER SET OF SIX RUBBER HOSE LINE INSULATORS AND THREE INSULATOR HOODS. |
| 12 | RAISE , ATTACH, REMOVE AND LOWER PULLEY AND SLING. |
| 13 | RAISE OR LOWER TEMPORARY OR PERMANENT CROSSARM. |
| 14 | INSTALL TEMPORARY OR PERMANENT SINGLE CROSSARM. |
| 15 | INSTALL OR REMOVE TIE WIRE TO INSULATOR . |
| 16 | REPOSITION NO. 1/O TO NO. 4/O CONDUCTOR. |
| 17 | INSTALL OR REMOVE HIGH VOLTAGE INSULATOR AND PIN . |
| 18 | REMOVE TEMPORARY OR PERMANENT SINGLE CROSSARM. |
| 19 | CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES |
| 20 | REMOVE OLD POLE FROM OBSTRUCTED AREA, INCLUDING PARTIAL EXCAVATION AROUND POLE. |
| 21 | POSITION LINE TRUCK. |
| 22 | BACKFILL OLD POLE HOLE . |
| 23 | MATERIAL HANDLING. |

GT-360 = 8.20916 HRS PER JOB
+ .14630 HRS PER CONDUCTOR

GT-361

REMOVE OLD AND REINSTALL ONE NEW INTERMEDIATE LINE POLE WITH TWO SINGLE CROSSARMS AND CONDUCTORS.

- | NO | WORK UNIT DESCRIPTION |
|----|---|
| 1 | ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK. |
| 2 | LOAD POLES ON TRUCK AND TRAILER AND UNLOAD. |
| 3 | DIG POLE HOLE (20 CF). |
| 4 | POSITION POLE ON GROUND. |
| 5 | SET NEW POLE IN OBSTRUCTED AREA USING POLE DERRICK |
| 6 | TRANSFER POLE IDENTIFICATION MARKINGS TO NEW POLE. |
| 7 | DON AND REMOVE CLIMBING GEAR, CLIMB UP AND DOWN POLE TO LOWER CROSSARM . |
| 8 | CLIMB TO AND FROM DIFFERENT LEVELS THRU OBSTRUCTED AREA. |
| 9 | CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE. |
| 10 | RAISE INSTALL, REMOVE AND LOWER SET OF SIX RUBBER. |
| 11 | RAISE, ATTACH REMOVE AND LOWER PULLEY AND SLING TO AND FROM POLE. |
| 12 | RAISE OR LOWER TEMPORARY OR PERMANENT CROSSARM . |
| 13 | INSTALL OR REMOVE TIE WIRE TO INSULATOR. |
| 14 | REPOSITION NO. 1/O TO NO. 4/O CONDUCTOR. |
| 15 | INSTALL OR REMOVE HIGH VOLTAGE INSULATOR AND PIN . |
| 16 | REMOVE TEMPORARY OR PERMANENT CROSS ARM. |
| 17 | INSTALL TEMPORARY OR FIRST NEW PERMANENT CROSS ARM |
| 18 | INSTALL SECOND NEW PERMANENT CROSS ARM. INCLUDES GAINING AND DRILLING POLE. |
| 19 | CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES |
| 20 | REMOVE OLD POLE FROM OBSTRUCTED AREA. |
| 21 | POSITION LINE TRUCK. |
| 22 | MATERIAL HANDLING. |

GT-361 = 7.91547 HRS PER JOB
+ .14630 HRS PER CONDUCTOR

GT-362

REMOVE OLD AND INSTALL ONE NEW INTERMEDIATE LINE POLE WITH ONE DOUBLE CROSSARM CARRYING CONDUCTORS

NO WORK UNIT DESCRIPTION

- == =====
- 1 ASSEMBLE POLE DERRICK TO LINE TRUCK AND DISASSEMBLE .
- 2 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD.
- 3 DIG POLE HOLE (20 CF).
- 4 POSITION POLE ON GROUND.
- 5 SET POLE IN OBSTRUCTED AREA USING POLE DERRICK.
- 6 BACKFILL AND TAMP AROUND POLE.
- 7 TRANSFER POLE IDENTIFICATION MARKINGS TO NEW POLE.
- 8 DON AND REMOVE CLIMBING GEAR . CLIMB UP AND DOWN POLE TO CROSSARM .
- 9 CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE.
- 10 CLIMB TO AND FROM DIFFERENT LEVELS THRU OBSTRUCTED AREAS .
- 11 RAISE, INSTALL, REMOVE, AND LOWER SET OF 6 LINE HOODS AND INSULATORS.
- 12 RAISE , ATTACH, REMOVE AND LOWER PULLEY AND SLING.
- 13 INSTALL OR REMOVE PIN AND INSULATOR.
- 14 RAISE OR LOWER TEMPORARY OR PERMANENT CROSSARM.
- 15 INSTALL TEMPORARY CROSSARM.
- 16 INSTALL OR REMOVE TIE WIRE TO INSULATOR.
- 17 REPOSITION NO. 1/O TO NO. 4/O CONDUCTOR.
- 18 REMOVE OLD DOUBLE CROSSARM .
- 19 INSTALL NEW DOUBLE CROSSARM TO POLE PREVIOUSLY GAINED AND DRILLED.
- 20 REMOVE TEMPORARY CROSSARM.
- 21 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES
- 22 REMOVE OLD POLE FROM OBSTRUCTED AREA. INCLUDES PARTIAL EXCAVATION .
- 23 POSITION LINE TRUCK.
- 24 MATERIAL HANDLING.

GT -362 = 8.82212 HRS PER JOB
+ .27744 HRS PER CONDUCTOR

GT -363

REMOVE OLD AND INSTALL ONE NEW INTERMEDIATE LINE POLE WITH TWO DOUBLE CROSSARMS AND CONDUCTORS.

NO WORK UNIT DESCRIPTION

- == =====
- 1 ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK.
- 2 DIG POLE HOLE (20 CF).
- 3 LOAD POLE ON TRUCK AND TRAILER AND UNLOAD.
- 4 POSITION POLE ON GROUND.
- 5 SET POLE IN OBSTRUCTED AREA.
- 6 BACKFILL AND TAMP AROUND NEW POLE.
- 7 TRANSFER POLE IDENTIFICATION MARKINGS.
- 8 DON AND REMOVE GEAR , CLIMB UP AND DOWN TO LOWER CROSSARM.
- 9 CLIMB THRU OBSTRUCTED AREA AND BACK.
- 10 CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE.
- 11 RAISE, INSTALL, REMOVE AND LOWER SET OF SIX RUBBER HOSE LINE INSULATORS AND THREE HOODS.
- 12 RAISE, ATTACH, REMOVE AND LOWER PULLEY AND SLING.
- 13 RAISE OR LOWER TEMPORARY OR PERMANENT CROSSARM.
- 14 INSTALL TEMPORARY CROSSARM.
- 15 INSTALL NEW DOUBLE CROSSARM .
- 16 INSTALL NEW DOUBLE CROSSARM INCLUDING GAINING AND DRILLING.
- 17 INSTALL OR REMOVE TIE WIRE TO INSULATOR.
- 18 REPOSITION NO. 1/O TO NO. 4/O CONDUCTOR .
- 19 INSTALL OR REMOVE HIGH VOLTAGE INSULATOR AND PIN.
- 20 REMOVE TEMPORARY CROSSARM .
- 21 REMOVE OLD DOUBLE CROSSARM .
- 22 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES
- 23 REMOVE POLE FROM OBSTRUCTED AREA.
- 24 POSITION LINE TRUCK.
- 25 BACKFILL POLE HOLE.
- 26 MATERIAL HANDLING.

GT-363 = 10.20320 HRS PER JOB
+ .27744 HRS PER CONDUCTOR

GT-364

REMOVE AND REINSTALL ONE NEW TERMINAL POLE WITH ONE DOUBLE CROSSARM AND CONDUCTORS.

NO WORK UNIT DESCRIPTION

- 1 MANUALLY ASSEMBLE AND DISASSEMBLE POLE DERRICK.
- 2 LOAD AND UNLOAD NEW AND OLD POLES.
- 3 EXCAVATE POLE HOLE (20 CF) .
- 4 POSITION POLE ON GROUND.
- 5 SET NEW POLE IN OBSTRUCTED AREA.
- 6 BACKFILL AND TAMP .
- 7 TRANSFER POLE IDENTIFICATION MARKINGS.
- 8 DON AND REMOVE GEAR, CLIMB UP AND DOWN TO LOWER CROSSARM.
- 9 CLIMB THRU OBSTRUCTED AREA AND BACK.
- 10 CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE.
- 11 RAISE , INSTALL, REMOVE AND LOWER INSULATOR SET.
- 12 RAISE , ATTACH, REMOVE AND LOWER PULLEY AND SLING.
- 13 RAISE OR LOWER TEMPORARY CROSSARM.
- 14 INSTALL TEMPORARY CROSSARM .
- 15 OBTAIN, RAISE, ATTACH RATCHET HOIST TO TERMINAL CONDUCTORS. LOOSEN AND REMOVE .
- 16 DISASSEMBLE AND REMOVE OLD JUMPER WIRE .
- 17 REMOVE PAIR CLEVIS INSULATORS .
- 18 REPOSITION TERMINAL CONDUCTOR ENDS. ATTACH TO RATCHET HOIST.
- 19 REMOVE OLD DOUBLE CROSSARM .
- 20 RAISE OR LOWER CROSSARM SECTIONS 2 UP 2 DOWN.
- 21 INSTALL OR REMOVE HIGH VOLTAGE INSULATOR OR PIN. 2 PER JUMPER CONNECTION.
- 22 INSTALL PAIR CLEVIS INSULATORS.
- 23 ASSEMBLE AND INSTALL NEW JUMPER WIRE.
- 24 REMOVE TEMPORARY CROSSARM .
- 25 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES
- 26 ATTACH AND DETACH, RAISE AND LOWER BUNDLE OF MATERIAL.
- 27 POSITION LINE TRUCK.
- 28 MATERIAL HANDLING.

GT-364 = 7.21320 HRS PER JOB
 + 1.11338 HRS PER CONDUCTOR

GT-365

REMOVE AND REINSTALL ONE NEW TERMINAL POLE WITH TWO DOUBLE CROSSARMS AND CONDUCTORS.

NO WORK UNIT DESCRIPTION

- 1 MANUALLY ASSEMBLE AND DISASSEMBLE POLE DERRICK .
- 2 LOAD AND UNLOAD NEW AND OLD POLES.
- 3 EXCAVATE POLE HOLE (20 CF).
- 4 POSIT ION POLE ON GROUND.
- 5 SET NEW POLE IN OBSTRUCTED AREA.
- 6 BACKFILL AND TAMP.
- 7 TRANSFER POLE IDENTIFICATION MARKINGS.
- 8 DON AND REMOVE GEAR, CLIMB UP AND DOWN TO LOWER CROSSARM.
- 9 CLIMB THRU OBSTRUCTED AREA AND BACK.
- 10 CHANGE TO RUBBER GLOVES AND SLEEVES AND REMOVE.
- 11 RAISE , INSTALL , REMOVE AND LOWER INSULATOR SET.
- 12 RAISE ATTACH, REMOVE AND LOWER PULLEY AND SLING.
- 13 RAISE OR LOWER TEMPORARY CROSSARM.
- 14 INSTALL TEMPORARY CROSSARM.
- 15 OBTAIN RAISE AND ATTACH RATCHET HOIST TO TERMINAL CONDUCTORS . LOOSEN AND REMOVE.
- 16 DISASSEMBLE AND REMOVE OLD JUMPER W IRE.
- 17 REMOVE PAIR CLEVIS INSULATORS .
- 18 REPOSITION TERMINAL CONDUCTOR ENDS. ATTACH TO RATCHET HOI ST.
- 19 REMOVE OLD CROSSARM .
- 20 RAISE OR LOWER CROSSARM SECT 1ONS . 4 UP 4 DOWN.
- 21 INSTALL OR REMOVE HIGH VOLTAGE INSULATOR AND PIN. 2 PER JUMPER CONNECTION.
- 22 INSTALL NEW DOUBLE CROSSARM, POLE PREVIOUSLY GAINED AND DRILLED.
- 23 INSTALL NEW **DOUBLE** CROSSARM INCLUDING GAINING AND DRILLING.
- 24 INSTALL PAIR OF **CLEVIS** INSULATORS.
- 25 ASSEMBLE AND INSTALL NEW JUMPER WIRE.
- 26 REMOVE TEMPORARY CROSSARM .
- 27 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES
- 28 ATTACH AND DETACH, RAISE AND LOWER BUNDLE OF MATER I AL .
- 29 POSITION LINE TRUCK.
- 30 MATERIAL HANDLING.

GT-365 = 9.49696 HRS PER JOB
 + 1.11338 HRS PER CONDUCTOR

GT-366

REMOVE OLD AND INSTALL NEW COMMUNICATIONS TYPE POLE WITH 2 CONDUCTORS.

NO WORK UNIT DESCRIPTION

- 1 MANUALLY ASSEMBLE AND DISASSEMBLE POLE DERRICK TO LINE TRUCK.
- 2 DIG POLE HOLE (20 CF).
- 3 LOAD POLE ON TRUCK AND TRAILER AND UNLOAD.
- 4 POSITION POLE ON GROUND .
- 5 INSTALL INSULATOR BRACKET AND INSULATOR.
- 6 SET NEW POLE IN OBSTRUCTED AREA.
- 7 BACKFILL AND TAMP AROUND POLE.
- 8 TRANSFER IDENTIFICATION MARKINGS.
- 9 DON AND REMOVE CLIMBING GEAR. CLIMB UP AND DOWN POLE .
- 10 REMOVE OR INSTALL TIE WIRE TO INSULATOR.
- 11 REPOSITION NO. 6 TO NO. 1 CONDUCTOR.
- 12 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES
- 13 REMOVE OLD POLE FROM OBSTRUCTED AREA. INCLUDES PARTIAL EXCAVATION.
- 14 BACKFILL OLD POLE HOLE.
- 15 POSITION LINE TRUCK.
- 16 REMOVE LOW VOLTAGE PIN AND INSULATOR.
- 17 MATERIAL HANDLING.

GT-366 = .74083 HRS PER JOB
 + 7.28714 HRS PER POLE

GT-372

STRAIGHTEN ONE FREE STANDING POLE USING TRUCK MOUNTED WINCH AND CABLE. REPOSITION CONDUCTORS.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL TIE WIRES. INCLUDES CLIMBING. AVE. = .0807 PER CONDUCTOR.
- 2 STRAIGHTEN FREE STANDING POLE USING TRUCK MOUNTED WINCH AND CABLE.

GT-372 = .53339 HRS PER JOB
 + .26072 HRS PER CONDUCTOR

GT-373

STRAIGHTEN ONE FREE STANDING POLE USING JACK. REPOSITION CONDUCTORS.

NO WORK UNIT DESCRIPTION

- 1 REMOVE AND REINSTALL TIE WIRES. INCLUDES CLIMBING. AVE. = .0807 PER CONDUCTOR.
- 2 STRAIGHTEN ONE FREE STANDING POLE USING JACK.

GT-373 = .41210 HRS PER JOB
 + .26072 HRS PER CONDUCTOR

GT-370

STRAIGHTEN ONE FREE STANDING POLE USING TRUCK MOUNTED WINCH AND CABLE. NO CONDUCTORS TO MOVE.

NO WORK UNIT DESCRIPTION

- 1 EXCAVATE AROUND POLE (10 CF) .
- 2 STRAIGHTEN POLE USING TRUCK MOUNTED WINCH.
- 3 BACKFILL AND TAMP.
- 4 MATERIAL HANDLING.

GT-370 = 1.57416 HRS PER JOB

GT-380

INSTALL ANCHOR GUYS TO PRE- INSTALLED ANCHORS, INCLUDING DRILLING HOLES AND ADJUSTING TENSION IN GUYS.

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE ANCHOR GUYS ON GROUND WITH ONE STRAIN INSULATOR EACH .
- 2 INSTALL PRE-ASSEMBLED ANCHOR GUY WITH GUY GUARD INCLUDING DRILLING HOLE AND PULLING GUY TAUT AT ANCHOR END FOR GUYS .

GT-380 = .70564 HRS PER GUY

GT-371

STRAIGHTEN ONE FREE STANDING POLE USING JACK. NO CONDUCTORS TO MOVE.

NO WORK UNIT DESCRIPTION

- 1 EXCAVATE AROUND POLE (10 CF) .
- 2 STRAIGHTEN POLE USING JACK.
- 3 BACKFILL AND TAMP.
- 4 MATERIAL HANDLING.

GT-371 = 1.45287 HRS PER JOB

GT-381

INSTALL ANCHOR GUYS WITH ANCHOR AND RODS INCLUDING HAND EXCAVATION AND BACKFILL OF EARTH AND ROCK (20 CF), DRILLING HOLES, AND ADJUSTING TENSION IN GUYS .

NO WORK UNIT DESCRIPTION

== =====

- 1 HAND EXCAVATE HOLES FOR ANCHOR (20 CF EACH).
- 2 CUT ANCHOR RCD RECESSES ON SIDE OF HOLES.
- 3 INSTALL ANCHOR WITH ROD FOR GUYS.
- 4 BACKFILL WITH EARTH AND/OR ROCK AND TAMP FOR ANCHOR GUYS.
- 5 ASSEMBLE ANCHOR GUYS ON GROUND WITH ONE STRAIN INSULATOR EACH .
- 6 INSTALL PRE-ASSEMBLED ANCHOR GUY WITH GUY GUARD INCLUDING DRILLING HOLE IN POLE AND PULLING WY TAUT AT ANCHOR END FOR GUYS.

GT-381 = 2.94990 HRS PER GUY

GT-382

INSTALL POLE OR ARM GUYS WITH STRAIN INSULATORS, INCLUDING DRILLING HOLE AND ADJUSTING GUY TENSION

NO WORK UNIT DESCRIPTION

== =====

- 1 ASSEMBLE POLE OR ARM GUY ON GROUND WITH ONE STRAIN INSULATOR EACH .
- 2 INSTALL PRE-ASSEMBLED POLE OR ARM GUYS - INCLUDES DRILLING HOLES AND PULLING GUYS TAUT .
- 3 MOVE BUCKET TRUCK FROM ONE POLE LOCATION TO THE NEXT FOR GUYS .

GT-382 = 1.06180 HRS PER POLE

GT-383

INSTALL UNOBSTRUCTED STUB POLES WITH POLE GUY AND ANCHOR WITH ANCHOR GUY, INCLUDING DRILLING HOLES, ADJUSTING TENSION IN GUYS, WITH EXCAVATION BY HAND, AND BACKFILL, USING A BUCKET TRUCK.

NO WORK UNIT DESCRIPTION

== =====

- 1 LOAD POLES ON TRUCK AND TRAILER AT YARD AND UNLOAD AT WORK SITES.
- 2 ROTATE POLES ON THE GROUND .
- 3 HAND EXCAVATE FOR STUB POLES (20 CT EACH).
- 4 SET POLE INCLUDING ASSEMBLY AND DISASSEMBLY OR POLE DERRICK.
- 5 SET POLE WITHOUT ASSEMBLY AND DISASSEMBLY OF POLE DERRICK FOR STUB POLES .
- 6 BACKFILL WITH EARTH AND/OR ROCK AND TAMP FOR STUB POLES.
- 7 INSTALL ANCHOR GUY WITH ANCHOR AND RODS, INCLUDING HAND EXCAVATION AND BACKFILL OF EARTH AND ROCK (20 CF), DRILLING HOLES IN POLES, AND ADJUSTING TENSION IN WY USING BUCKET TRUCK FOR STUB POLES.
- 8 ASSEMBLE POLE GUYS ON GROUND WITH ONE STRAIN INSULATOR EACH .
- 9 POSITION TRUCK FOR STUB POLES .
- 10 INSTALL PRE-ASSEMBLED POLE GUY- INCLUDES DRILLING HOLES IN POLE AND PULLING GUY TAUT FOR STUB POLE.

GT-383 = .20344 HRS PER JOB
+ 8.52907 HRS PER POLE

GT-384

INSTALL UNOBSTRUCTED STUB POLES WITH POLE GUY AND ANCHOR WITH ANCHOR GUY, INCLUDING DRILLING HOLES, ADJUSTING TENSION IN GUYS, WITH MECHANICAL EXCAVATION, AND BACKFILL.

NO WORK UNIT DESCRIPTION

== =====

- 1 LOAD POLES ON TRUCK AND TRAILER AT YARD AND UNLOAD AT WORK SITE.
- 2 ROTATE POLES ON THE GROUND.
- 3 BORE HOLES WITH MECHANICAL EARTH AUGER, TRUCK MOUNTED (HOLE: 7 FT. DEEP, 1-2 FT. IN DIAMETER), SANDY AND AVERAGE SOIL CONDITIONS, TWO MEN, (ONE HOLE EACH FOR STUB POLE AND ANCHOR).
- 4 CUT ANCHOR ROD RECESSES ON SIDE OF ANCHOR HOLE FOR STUB POLES.
- 5 SET POLE INCLUDING ASSEMBLY AND DISASSEMBLY OF POLE DERRICK.
- 6 SET POLE WITHOUT ASSEMBLY AND DISASSEMBLY OF POLE DERRICK FOR STUB POLES.
- 7 INSTALL ANCHOR WITH ROD FOR STUB POLES.
- 8 BACKFILL WITH EARTH (STUB POLE AND ANCHOR) AND/OR ROCK AND TAMP FOR STUB POLES.
- 9 ASSEMBLE ONE ANCHOR GUY ON GROUND WITH ONE STRAIN INSULATOR FOR STUB POLES.
- 10 INSTALL ONE POLE GUY WITH STRAIN INSULATORS, INCLUDING DRILLING HOLE AND ADJUSTING GUY TENSION FOR STUB POLES.
- 11 INSTALL PRE-ASSEMBLED ANCHOR GUY WITH GUY GUARD INCLUDING DRILLING HOLE IN POLE AND PULLING GUY TAUT AT ANCHOR END FOR STUB POLES.

GT-384 = 1.42565 HRS PER JOB
+ 4.61768 HRS PER POLE

GT-385

INSTALL PUSH BRACES, INCLUDING DRILLING TWO HOLES, WITH EXCAVATION BY HAND AND BACKFILL.

NO WORK UNIT DESCRIPTION

- 1 LOAD POLES ON TRUCK AND TRAILER AT YARD AND UNLOAD AT WORK SITE.
- 2 ROTATE POLES ON THE GROUND .
- 3 HAND EXCAVATE FOR PUSH BRACES (20 CF EACH).
- 4 INSTALL PUSH BRACE .
- 5 BACKFILL WITH EARTH AND/OR ROCK AND TAMP FOR PUSH BRACES.
- 6 POSITION TRUCK FOR EACH OF PUSH BRACES.

GT-385 = .20344 HRS PER JOB
 + 3.84728 HRS PER POLE

GT-386

INSTALL PUSH BRACE - INCLUDING DRILLING TWO HOLES, EXCAVATION BY MECHANICAL AUGER, BACKFILL .

NO WORK UNIT DESCRIPTION

- 1 LOAD POLES ON TRUCK AND UNLOAD AT WORK SITE .
- 2 ROTATE POLES ON GROUND .
- 3 BORE HOLE WITH MECHANICAL AUGER FOR PUSH BRACES.
- 4 INSTALL PUSH BRACES.
- 5 BACKFILL WITH EARTH AND/OR ROCK AND TAMP FOR PUSH BRACES.

GT-386 = .20344 HRS PER JOB
 + 2.71544 HRS PER POLE

GT -389

REMOVE STUB POLES WITH POLE GUYS AND ANCHOR GUYS, INCLUDING PARTIAL EXCAVATION, CUTTING ANCHOR ROD AND BACKFILLING - USING A BUCKET TRUCK. USE FOR ONE (1) TO THREE (3) POLES ONLY;

NO WORK UNIT DESCRIPTION

- 1 REMOVE POLE GUY FROM STUB POLES.
- 2 REMOVE ANCHOR GUYS INCLUDING DISASSEMBLY OF WY GUARD FOR STUB POLES .
- 3 REMOVE ANCHOR RODS INCLUDING PARTIAL EXCAVATION AND BACKFILL FOR STUB POLES.
- 4 REMOVE STUB POLES INCLUDING ASSEMBLY AND DISASSEMBLY OF POLE DERRICK, INITIAL RAISING OF POLE WITH POLE JACK AND PARTIAL EXCAVATION.
- 5 REMOVE STUB POLES WITH INITIAL RAISING OF POLE WITH POLE JACK, INCLUDING PARTIAL EXCAVATION.
- 6 REPOSITION LINE TRUCK FOR STUB POLES. LOAD POLES AT SITE AND UNLOAD AT DISPOSAL AREA.
- 7 BACKFILL HOLE (10 CF) FOR STUB POLES.

GT-389 = 3.44059 HRS PER POLE
 + 2.02941 HRS PER JOB

GT -390

REMOVE ANCHOR GUYS AND ANCHOR RODS, INCLUDING PARTIAL HAND EXCAVATION AND DISASSEMBLY OF GUY WARDS.

NO WORK UNIT DESCRIPTION

- 1 REMOVE ANCHOR GUYS INCLUDING DISASSEMBLY OF GUY GUARDS .
- 2 REMOVE ANCHOR RODS INCLUDING PARTIAL EXCAVATION AND BACKFILL.

GT-390 = .84145 HRS PER GUY

GT-391

REMOVE POLE OR ARM GUYS .

NO WORK UNIT DESCRIPTION

- 1 REMOVE POLE OR ARM GUYS.

GT-391 = .67823 HRS PER POLE

GT -392

REMOVE STUB POLES WITH POLE GUYS AND ANCHOR GUYS, INCLUDING PARTIAL EXCAVATION, CUTTING ANCHOR ROD - USING A BUCKET TRUCK. EXCLUDES BACKFILLING.

NO WORK UNIT DESCRIPTION

- 1 REMOVE ANCHOR GUYS INCLUDING DISASSEMBLY OF GUY WARD FOR STUB POLES .
- 2 REMOVE POLE GUY FROM STUB POLES .
- 3 REMOVE ANCHOR ROD INCLUDING PARTIAL EXCAVATION AND BACKFILL FOR STUB POLES.
- 4 REMOVE STUB POLES INCLUDING ASSEMBLY AND DISASSEMBLY OF POLE DERRICK, INITIAL RAISING OF POLE WITH POLE JACK AND PARTIAL EXCAVATION .
- 5 REMOVE STUB POLE WITH INITIAL RAISING OF POLE WITH POLE JACK, INCLUDING PARTIAL EXCAVATION.
- 6 REPOSITION LINE TRUCK FOR STUB POLES.
- 7 LOAD POLES AT SITE AND UNLOAD AT DISPOSAL AREA.

GT-392 = 5.10496 HRS PER POLE
 + .20344 HRS PER JOB

GT-393

REMOVE PUSH BRACES USING BELT AND GAFF METHOD (CLIMBING POLE).

NO WORK UNIT DESCRIPTION

- 1 LOAD POLES ON TRUCK AND TRAILER AND UNLOAD AT DISPOSAL SITE.
POLE = NO. OF PUSH BRACES.
- 2 ROTATE PUSH BRACES ON GROUND .
- 3 EXCAVATE FOR PUSH BRACES BY HAND (20 CF) .
- 4 REMOVE OLD PUSH BRACES - INCLUDES CLIMBING POLE .
- 5 BACKFILL WITH EARTH AND/OR ROCK AND TAMP FOR PUSH BRACES .

GT-393 .20344 HRS PER JOB
 + 3.28253 HRS PER POLE

GT-395

REMOVE AND REINSTALL ANCHOR GUYS (WITHOUT REMOVAL/ REINSTALLATION OF ANCHORS), INCLUDES ADJUSTING TENSION IN GUYS.

NO WORK UNIT DESCRIPTION

- 1 INSTALL ANCHOR GUYS TO PRE-INSTALLED ANCHORS, INCLUDING DRILLING HOLES AND ADJUSTING TENSION IN GUY.
- 2 REMOVE ANCHOR GUYS INCLUDING DISASSEMBLY OF WY GUARD .

GT-395 = 1.04107 HRS PER GUY

GT-396

REMOVE AND REINSTALL ANCHOR GUYS, INCLUDING ANCHORS AND RODS, AND ADJUSTING TENSION IN GUYS USING A BUCKET TRUCK

NO WORK UNIT DESCRIPTION

- 1 INSTALL ANCHOR GUYS WITH ANCHORS AND RODS, INCLUDING HAND EXCAVATION AND BACKFILL OF EARTH AND ROCK (20 CF), DRILLING HOLES, AND ADJUSTING TENSION IN GUYS - USING BUCKET TRUCK.
- 2 REMOVE ANCHOR GUYS INCLUDING DISASSEMBLY OF GUY GUARD .
- 3 REMOVE ANCHOR RODS INCLUDING PARTIAL EXCAVATION AND BACKFILL.

GT -396 = 3.79135 HRS PER GUY

GT-397

REMOVE AND REINSTALL POLE OR ARM GUYS, WITH STRAIN INSULATOR, INCLUDING DRILLING HOLES AND ADJUSTING WY TENSION USING A BUCKET TRUCK.

NO WORK UNIT DESCRIPTION

- 1 INSTALL POLE OR ARM GUYS WITH STRAIN INSULATORS, INCLUDING DRILLING HOLE AND ADJUSTING WY TENSION
- 2 REMOVE POLE OR ARM GUYS .

GT-397 = 1.74003 HRS PER WY

GT-398

REMOVE AND REINSTALL UNOBSTRUCTED STUB POLES WITH POLE GUY AND ANCHOR WY WITH ANCHOR, INCLUDING DRILLING HOLES, ADJUSTING TENSION IN GUYS WITH EXCAVATION BY HAND AND BACKFILL USING A BUCKET TRUCK.

NO WORK UNIT DESCRIPTION

- 1 REMOVE STUB POLES WITH POLE GUYS AND ANCHOR GUYS, INCLUDING PARTIAL EXCAVATION, CUTTING ANCHOR ROD AND BACKFILLING.
- 2 INSTALL UNOBSTRUCTED STUB POLES WITH POLE GUY AND ANCHOR WITH ANCHOR WY, INCLUDING DRILLING HOLES, ADJUSTING TENSION IN GUYS, WITH EXCAVATION BY HAND AND BACKFILL - USING A BUCKET TRUCK.

GT-398 = 5.30840 HRS PER JOB
 + 8.73251 HRS PER POLE

GT-399

REMOVE AND REINSTALL PUSH BRACES . EXCAVATE BY HAND .

NO WORK UNIT DESCRIPTION

- 1 REMOVE PUSH BRACES.
- 2 INSTALL PUSH BRACES.

GT-399 = .40688 HRS PER JOB
 + 7.12981 HRS PER UNIT

GT-406

INSTALL OR REMOVE GROUND RODS (3/4" X 10') AND CLAMP GROUND WIRE TO ROD, INCLUDING PARTIAL EXCAVATION AND BACKFILL .

NO WORK UNIT DESCRIPTION

- 1 EXCAVATE HOLE FOR GROUND ROD (2 CF) .
- 2 DRIVE GROUND ROD (3/4" X 10') INTO GROUND.
- 3 CONNECT GROUND WIRE TO ROD WITH CLAMP .
- 4 BACKFILL OVER TOP OF GROUND (2 CF) .
- 5 MATERIAL HANLING.

GT-406 = .49452 HRS PER ROD

GT-407

INSTALL GROUND WIRE AND ROD INCLUDING PROTECTIVE WIRE MOLDING ON POLE INCLUDES CLAMPING GROUND WIRE TO ROD AND USE OF PROTECTIVE LINE INSULATION

NO WORK UNIT DESCRIPTION

- 1 EXCAVATE HOLE FOR GROUND ROD (2 CF) .
- 2 DRIVE GROUND ROD (3/4" X 10') INTO GROUND.
- 3 SECURE GROUND WIRE TO POLE (STAPLES).
30 = NO. OF FEET OF CABLE.
- 4 INSTALL PROTECTIVE MOLDING ON POLE.
10 = NO. OF LINEAR FEET PER JOB.
- 5 CONNECT GROUND WIRE TO ROD WITH CLAMP.
- 6 BACKFILL OVER TOP OF GROUND ROD.
- 7 CHANGE POSITION ON POLE THROUGH OBSTRUCTED AREA.
- 8 CHANGE FROM LINEMAN TO RUBBER GLOVES.
- 9 INSTALL AND REMOVE PROTECTIVE LINE INSULATION .
- 10 RAISE BUNDLE OF MATERIAL.

GT-407 = .99881 HRS PER JOB

GT-408

INSTALL OR REMOVE PRIMARY OR SECONDARY DISTRIBUTION SYSTEM JUMPER WIRE CONNECTION ON POLE TO OR FROM PRE-INSTALLED INSULATORS - EXCLUDES POLE ASCENT OR USE OF PROTECTIVE EQUIPMENT .

NO WORK UNIT DESCRIPTION

- 1 ATTACH AND DETACH, RAISE AND LOWER ONE JUMPER WIRE ASSEMBLY USING HANDLINE.
- 2 INSTALL OR REMOVE INCLUDING ASSEMBLY OR DISASSEMBLY, ONE JUMPER WIRE .
- 3 MATERIALS HANDLING.

GT-408 = .30326 HRS PER WIRE

GT-409

INSTALL OR REMOVE PRIMARY OR SECONDARY DISTRIBUTION SYSTEM JUMPER WIRE CONNECTION ON POLE TO OR FROM PRE-INSTALLED INSULATORS INCLUDES TIME FOR OBSTRUCTED AREA .

NO WORK UNIT DESCRIPTION

- 1 INSTALL AND REMOVE PROTECTIVE LINE EQUIPMENT INSULATION EQUIPMENT (UP TO SIX HOSES).
- 2 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES.
- 3 INSTALL OR REMOVE PRIMARY OR SECONDARY DISTRIBUTION SYSTEM JUMPER WIRE.

GT-409 = .49022 HRS PER WIRE

GT-410

INSTALL WIRING AND MAKE CONNECTIONS FOR SINGLE PHASE TRANSFORMERS (POLE MOUNTED 15 TO 50 KVA) INCLUDING CONNECTIONS TO SECONDARY SYSTEM, GROUND LEAD CUT-OUT , ARRESTER AND PRIMARY SYSTEM AND FASTENING WIRE TO INSULATOR.

NO WORK UNIT DESCRIPTION

- 1 CHANGE POSITION ON POLE 10 TIMES.
- 2 CHANGE FROM LINEMAN TO RUBBER GLOVES.
- 3 INSTALL AND REMOVE PROTECTIVE LINE EQUIPMENT .
- 4 CONNECT WIRES BETWEEN TRANSFORMER AND CUT-OUTS.
TIE = TOTAL NO. OF TIES INSTALLED.
- 5 CONNECT WIRES BETWEEN TRANSFORMER AND SECONDARY LINES (3) INCLUDING GROUND.
- 6 CONNECT TWO LIGHTNING ARRESTERS TO GROUND .
- 7 INSTALL TRAINING WIRE PIN AND INSULATOR.
- 8 CONNECT TWO LIGHTNING ARRESTORS AND CUT-OUTS TO PRIMARY LINES.
TIE = TOTAL NO. OF LEADS.
- 9 INSTALL WIRE TIE TO TRAINING INSULATOR.
- 10 INSTALL FUSE IN CUT-OUT SWITCH.
TIE = TOTAL NO. OF SWITCHES.
- 11 CLOSE CUT-OUT SWITCH INCLUDING CLIMB AND HANDLING STICK.
TIE = TOTAL NO. OF SWITCHES.
- 12 MATERIAL HANDLING.

GT-410 = .74594 HRS PER JOB
+ .80429 HRS PER TIE

GT-411

DISCONNECT AND REMOVE WIRING FROM SINGLE PHASE TRANSFORMER (POLE MOUNTED 15 TO 50 KVA) INCLUDING CONNECTIONS FROM PRIMARY AND SECONDARY SYSTEMS, GROUND LEAD, CUT-OUT AND ARRESTER.

NO WORK UNIT DESCRIPTION

- 1 CHANGE HORIZONTAL POSITION ON POLE UP TO TEN TIMES.
- 2 CHANGE FROM LINEMAN TO RUBBER GLOVES.
- 3 INSTALL AND REMOVE PROTECTIVE LINE INSULATION .
- 4 OPEN CUT-OUT SWITCH INCLUDING CLIMB AND USING STICK.
- 5 REMOVE TWO CONNECTORS AND DISCONNECT CONNECTORS.
- 6 REMOVE TIE WIRE FROM TRAINING INSULATOR.
- 7 REMOVE TRAINING WIRE PIN AND INSULATOR.
- 8 MATERIAL HANDLING.

GT-411 = .42287 HRS PER JOB
+ .07803 HRS PER TIE

GT-412

REMOVE OLD LINES FROM INSULATORS AND INCANDESCENT STREET LIGHT FIXTURES FROM EXISTING POLES. BUCKET TRUCK USED .

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE OLD LINES FROM INSULATORS AND INCANDESCENT STREET LIGHT FIXTURES FROM EXISTING POLES. BUCKET TRUCK USED .

GT-412 = .05020 HRS PER JOB
 + .12072 HRS PER POLE

GT-413

INSTALL 400 WATT HIGH PRESSURE SODIUM STREET LIGHTS TO EXISTING POLES. BUCKET TRUCK USED . TWO MEN REWIRED.

NO WORK UNIT DESCRIPTION

== =====

- 1 UNWIND AND LAYOUT FOOTAGE OF #6 TRIPLEX CABLE. TWO MEN REQUIRED.
- 2 MOUNT #6 TRIPLEX CABLE TO TOP OF EXISTING POLES. TWO MEN REQUIRED.
- 3 ASSEMBLE A 400 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOELECTRIC RECEPTACLE FROM SHIPPING BOX.
- 4 MOUNT A 400 WATT HIGH PRESSURE SODIUM LUMINAIRE TO AN EXISTING POLE. TWO MEN REQUIRED.
- 5 SPLICE 3-#12 CONDUCTORS TO 3-#6 (TRIPLEX CABLE) CONDUCTORS WITH SOLDERLESS CONNECTORS TO PROVIDE SERVICE TO A NEW 400 WATT HIGH PRESSURE SODIUM LUMINAIRE AT TOP OF POLE.

GT-413 = .11706 HRS PER 500 LF
 + .11306 HRS PER POLE
 + .33278 HRS PER FIXTURE
 + .03268 HRS PER JOB

GT-414

REMOVE OLD LINES FROM INSULATORS AND INCANDESCENT STREET LIGHT FIXTURES FROM EXISTING POLES AND REINSTALL 400 WATT HIGH PRESSURE SODIUM STREET LIGHTS. BUCKET TRUCK USED . TWO MEN REQUIRED.

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE OLD LINES FROM INSULATORS AND INCANDESCENT STREET LIGHT FIXTURES FROM EXISTING POLES. BUCKET TRUCK USED .
- 2 INSTALL 400 WATT HIGH PRESSURE SODIUM STREET LIGHTS TO EXISTING POLES. BUCKET TRUCK USED . TWO MEN REQUIRED.

GT-414 = .08288 HRS PER JOB
 + .23378 HRS PER POLE
 + .11706 HRS PER 500 LF
 + .33278 HRS PER FIXTURE

GT-415

REMOVE STREET LAMP SUPPORT ARM AND FIXTURE FROM POLE USING BUCKET TRUCK BUCKET; OBSTRUCTED; 3 MAN CREW.

NO WORK UNIT DESCRIPTION

== =====

- 1 PUT TOOLS AND EQUIPMENT INTO BUCKET TRUCK BUCKET AND REMOVE .
- 2 POLE TIME - INCLUDES TRUCK SETUP TIME .
- 3 FASTEN ROPE AND HOIST TO CROSSARM AND UNFASTEN.
- 4 FASTEN ROPE TO STREET LAMP SUPPORT ARM AND UNFASTEN .
- 5 REMOVE BOLT FROM LAMP SUPPORT ARM .
- 6 LOWER LAMP SUPPORT ARM TO GROUND USING ROPE AND HOIST.
- 7 MATERIAL HANDLING.

GT-415 = .10802 HRS PER JOB
 + .07461 HRS PER POLE
 + .31674 HRS PER LAMP

GT-416

REMOVE ONE 3 SPOOL SECONDARY RACK FROM POLE CONDUCTORS PREVIOUSLY REMOVED .

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE ONE 3 SPOOL SECONDARY RACK.

GT-416 = .13709 HRS PER JOB

GT-417

REMOVE ONE FIVE SPOOL SECONDARY RACK FROM POLE CONDUCTORS PREVIOUSLY REMOVED .

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE ONE FIVE SPOOL SECONDARY RACK.

GT-417 = .32231 HRS PER JOB

GT-418

REMOVE ONE SINGLE CROSSARM FROM POLE - CONDUCTORS PREVIOUSLY REMOVED, PINS AND INSULATORS NOT REMOVED .

NO WORK UNIT DESCRIPTION

== =====

- 1 REMOVE SINGLE CROSSARM.
- 2 RAISE OR LOWER ONE CROSSARM (INSTALL OR REMOVE).

GT-418 = .16256 HRS PER CROSSARM

GT-419

REMOVE DOUBLE CROSSARMS FROM POLE - CONDUCTORS PREVIOUSLY REMOVED, PINS AND INSULATORS NOT RE - MOVED .

NO WORK UNIT DESCRIPTION
=====

1 REMOVE DOUBLE CROSSARM.
2 RAISE OR LOWER 2 CROSSARMS (INSTALL OR REMOVE) .

GT-419 = .45508 HRS PER CROSSARM

GT-423

INSTALL DOUBLE CROSSARMS FROM POLE - CONDUCTORS PREVIOUSLY REMOVED , PINS AND INSULATORS NOT REMOVED .

NO WORK UNIT DESCRIPTION
=====

1 INSTALL DOUBLE CROSSARM.
2 RAISE OR LOWER 2 CROSSARMS (INSTALL OR REMOVE).

GT-423 = .66522 HRS PER CROSSARM

GT-420

POLE TIME; TIME REQUIRED TO ASCEND STANDARD UTILITY POLE. METHOD (A): TIME FOR GAFFE AND BELT METHOD.

NO WORK UNIT DESCRIPTION
=====

1 CLIMB POLE MANUALLY, DON AND REMOVE CLIMBING GEAR, CLIMB UP AND DOWN POLE TO LOWER CROSS ARM.
2 CLIMB TO AND FROM DIFFERENT LEVELS ON POLE THROUGH OBSTRUCTED AREA .
3 ATTACH AND REMOVE PULLEY AND SLING TO TOP OF POLE OR CROSSARM .
4 RAISE AND LOWER TOOL BAG AND MATERIAL.
5 CHANGE HORIZONTAL POSIT ION OF POLE UP TO TEN TIMES.
6 CHANGE TO RUBBER GLOVES AND SLEEVES.

GT-420 = .34375 HRS PER JOB

GT-424

INSTALL OR REMOVE PINS AND HIGH VOLTAGE INSULATORS IN PREDRILLED HOLES, IN CROSSARMS ON POLE; CONDUCTORS ENERGIZED.

NO WORK UNIT DESCRIPTION
=====

1 INSTALL AND REMOVE SET OF RUBBER HOSES AND HOODS ON ENERGIZED CONDUCTORS.
2 INSTALL OR REMOVE PINS AND HIGH VOLTAGE INSULA - TORS.
3 MATERIAL HANDLING.

GT-424 = .21582 HRS PER JOB
+ .05635 HRS PER UNIT

GT-421

POLE TIME; TIME REQUIRED TO ASCEND STANDARD UTILITY POLE. METHOD (B): USING BUCKET. INCLUDES TRUCK SET UP TIME.

NO WORK UNIT DESCRIPTION
=====

1 ENTER BUCKET, RAISE TO WORKING POSITION AND RETURN INCLUDES TEN REPOSITIONS OF BUCKET; INCLUDES CHANGE OF POSITION UP TO TEN TIMES.
2 CHANGE TO RUBBER GLOVES AND SLEEVES.

GT-421 = .21831 HRS PER JOB

GT-425

REMOVE AND REINSTALL INSULATORS ON EXISTING PINS, REPOSITION CONDUCTORS .

NO WORK UNIT DESCRIPTION
=====

1 INSTALL AND REMOVE 6 RUBBER HOSE LINE INSULATORS AND 3 INSULATOR HOODS.
2 REMOVE AND REINSTALL TIE WIRES.
3 REMOVE AND REINSTALL INSULATORS ON PINS.
4 REPOSITION NO. 1/O TO NO. 4/O CONDUCTORS TWICE .
5 MATERIAL HANDLING.

GT-425 = .19517 HRS PER CONDUCTOR
+ .03453 HRS PER JOB

GT-422

INSTALL ONE SINGLE CROSSARM FROM POLE - CONDUCTORS PREVIOUSLY REMOVED, PINS AND INSULATORS NOT REMOVED.

NO WORK UNIT DESCRIPTION
=====

1 INSTALL SINGLE CROSSARM.
2 RAISE OR LOWER ONE CROSSARM (INSTALL OR REMOVE).

GT-422 = .34596 HRS PER CROSSARM

GT-426

REPOSITION CONDUCTORS.

NO WORK UNIT DESCRIPTION
=====

1 INSTALL AND REMOVE 6 LINE INSULATORS AND 3 INSULA - TOR HOODS.
2 REPOSITION NO. 1/O TO NO. 4/O CONDUCTORS TWICE .

GT-426 = .06402 HRS PER CONDUCTOR

GT-427

REMOVE AND REINSTALL PINS AND HIGH VOLTAGE INSULATORS ON POLE REPOSIT 10N CONDUCTORS (ENERGIZED SYSTEM)

NO WORK UNIT DESCRIPTION

- 1 INSTALL AND REMOVE 6 RUBBER HOSE LINE INSULATORS AND 3 INSULATOR HOODS.
- 2 REMOVE AND REINSTALL TIE WIRES.
- 3 REMOVE AND INSTALL PINS AND HIGH VOLTAGE INSULATORS.
- 4 REPOSIT ION NO. 1/O TO NO. 4/O CONDUCTORS TWICE .
- 5 MATERIAL HANDLING.

GT-427 = .19517 HRS PER CONDUCTOR
 + .06906 HRS PER JOB

GT-428

INSTALL ONE 3 SPOOL SECONDARY RACK TO POLE. CONDUCTORS PREVIOUSLY REMOVED .

NO WORK UNIT DESCRIPTION

- 1 INSTALL ONE 3 SPOOL SECONDARY RACK.

GT-428 = .22285 HRS PER JOB

GT-429

REMOVE AND REINSTALL ONE 3 SPOOL SECONDARY RACK FROM POLE; CONDUCTORS PREVIOUSLY REMOVED .

NO WORK UNIT DESCRIPTION

- 1 REMOVE ONE 3 SPOOL SECONDARY RACK.
- 2 REINSTALL ONE 3 SPOOL SECONDARY RACK.
- 3 MATERIAL HANDLING.

GT-429 = .56712 HRS PER JOB

GT-430

INSTALL ONE FIVE SPOOL SECONDARY RACK TO POLE. CONDUCTORS PREVIOUSLY REMOVED .

NO WORK UNIT DESCRIPTION

- 1 INSTALL ONE FIVE SPOOL SECONDARY RACK.

GT-430 = .32231 HRS PER JOB

GT-431

REMOVE AND REINSTALL ONE FIVE SPOOL SECONDARY RACK FROM POLE; CONDUCTORS PREVIOUSLY REMOVED.

NO WORK UNIT DESCRIPTION

- 1 REMOVE ONE FIVE SPOOL SECONDARY RACK.
- 2 REINSTALL ONE FIVE SPOOL SECONDARY RACK.
- 3 MATERIAL HANDLING.

GT-431 = .74708 HRS PER JOB

GT-433

INSTALL OR REMOVE BANKS OF THREE 3-15 KVA TRANSFORMERS ON POLE, NOT INCLUDING WORK ON TRAINING WIRES OR TIME TO GET TO WORKING LEVEL.

NO WORK UNIT DESCRIPTION

- 1 ATTACH AND REMOVE PULLEY AND SLING TO TOP OF POLE OR UPPER CROSS ARM.
- 2 RAISE TRANSFORMER BANK TO INSTALLATION LEVEL USING PULLEY .
- 3 INSTALL OR REMOVE TRANSFORMER BANK, EXCLUDING WIRING.
- 4 MATERIAL HANDLING (TRANSFORMER) .

GT-433 = 1.07988 HRS PER BANK

GT-434

INSTALL CLEVIS INSULATORS.

NO WORK UNIT DESCRIPTION

- 1 INSTALL OR REMOVE PAIRS OF CLEVIS INSULATORS FROM CROSS ARM.

GT-434 = .12162 HRS PER UNIT

GT-435

INSTALL JUMPER CONNECTIONS .

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE/ASSEMBLE AND REMOVE/INSTALL JUMPER WIRE CONNECTIONS INCLUDING WIRE TIES TO INSULATORS.

GT-435 = .25222 HRS PER UNIT

GT-436

INSTALL OR REMOVE: COMMUNICATIONS, WIRE, PIN OR LOU VOLTAGE PIN BRACKET WITH INSULATORS TO OR FROM POLE (HOLES PRE-DRILLED IN CROSS ARM).

NO WORK UNIT DESCRIPTION

== =====

- 1 INSTALL OR REMOVE:
 - A) COMMUNICATIONS HIRE OR;
 - B) PIN OR;
 - C) LOU VOLTAGE BRACKET.

GT-436 = .04439 HRS PER UNIT

GT-437

INSTALL POLE STEPS ON GROUND - INCLUDES DRILLING HOLES.

NO WORK UNIT DESCRIPTION

== =====

- 1 DRILL HOLES AND INSTALL POLE STEPS.
- 2 MATERIAL HANDLING.

GT-437 = .31247 HRS PER STEP

GT-438

REMOVE DEFECTIVE CARTRIDGE TYPE FUSES AND REINSTALL FUSED CUT-OUT SWITCHES ON POLE - USE STICK TO OPEN OR CLOSE SWITCHES. FROM GROUND.

NO WORK UNIT DESCRIPTION

== =====

- 1 OPEN AND CLOSE SWITCHES .
- 2 REMOVE OLD AND REINSTALL NEW FUSES.
- 3 MATERIAL HANDLING.

GT-438 = .01638 HRS PER FUSE
+ .03885 HRS PER JOB

GT-439

INSTALL OR REMOVE 3-15 KVA TRANSFORMERS - NOT INCLUDING WORK ON TRAINING HIRES.

NO WORK UNIT DESCRIPTION

== =====

- 1 RAISE TRANSFORMER TO INSTALLATION POSITION USING PULLEY.
- 2 INSTALL OR REMOVE ONE 3-15 KVA TRANSFORMER - EXCLUDING HIRING.
- 3 MATERIAL HANDLING.

GT-439 = 1.00727 HRS PER UNIT

GT-440

ENTER AND LEAVE SECURED ELECTRICAL EQUIPMENT STORAGE YARD TWICE WITH LINE TRUCK AND CREW OF THREE MEN .

NO WORK UNIT DESCRIPTION

== =====

- 1 WALK TO GATE FROM TRUCK, UNLOCK GATE, OPEN, CLOSE, LOCK GATE AND RETURN TO TRUCK, TWICE, FOR THREE MAN CREW.
- 2 POSITION LINE TRUCK THROUGH OPEN GATE, TWICE, FOR THREE MAN CREW.

GT-440 = .21096 HRS PER JOB

GT-441

LOAD POLES ON TRUCK AND TRAILER AT POLE YARD AND UNLOAD AT WORK SITE USING HYDRAULICALLY ACTIVATED POLE DERRICK. DERRICK RAISED AND LOWERED TO WORKING AND TRAVEL POSITIONS AT POLE YARD AND AT WORK SITE

NO WORK UNIT DESCRIPTION

== =====

- 1 RAISE HYDRAULIC DERRICK TO WORKING POSITION, AND LOWER TO TRAVEL POSITION (NO REPOSITIONS) .
- 2 LOAD POLES ON TRUCK AND TRAILER AT YARD AND UNLOAD AT WORK SITE.

GT-441 = .27805 HRS PER JOB
+ .50904 HRS PER POLE

GT-442

OPEN AND CLOSE FOUR PRIMARY FEEDER LINE , POLE MOUNTED DISCONNECT SWITCHES USING STICK WHILE WORKING FROM POLE. DOES NOT INCLUDE POLE ASCENT TIME

NO WORK UNIT DESCRIPTION

== =====

- 1 WALK AVERAGE DISTANCE OF ONE SPAN AND RETURN, TWICE, FOR ONE MAN (AVERAGE 155' TO 165').
- 2 OPEN OR CLOSE FOUR WITCHES, TWICE.

GT-442 = .09323 HRS PER JOB

GT-443

CUT-OFF SECTION OF POLE TIP IN PLACE USING HAND SAW AND LOWER TO GROUND THROUGH ENERGIZED CONDUCTOR AREA . DOES NOT INCLUDE POLE ASCENT TIME

NO WORK UNIT DESCRIPTION

== =====

- 1 ATTACH AND REMOVE PULLEY AND SLING TO POLE TOP BELOW INTENDED CUT-OFF .
- 2 SAW OFF SECTION OF POLE USING HAND SAW.
- 3 ATTACH SAWED-OFF SECTION OF POLE TO REEVED HANDLE AND LOWER THROUGH OBSTRUCTED AREA.
- 4 INSTALL AND REMOVE TOP TWO SETS OF SIX RUBBER HOSE AND THREE RUBBER CAPS OVER ENERGIZED CONDUCTORS.

GT -443 = .53806 HRS PER JOB

GT-444

CUT-OFF SECTION OF POLE TIP IN PLACE USING HAND SAW-NO OBSTRUCTIONS - DOES NOT INCLUDE TIME FOR POLE ASCENT

NO WORK UNIT DESCRIPTION

== =====

- 1 SAW OFF PORTION OF POLE USING HAND SAW .

GT-444 = .08628 HRS PER JOB

GT-445

INSTALL OR REMOVE SEPARATELY MOUNTED LIGHTNING ARRESTERS OR FUSED CUT-OUTS ON POLE . NOT INCLUDING WORK ON TRAINING WIRES.

NO WORK UNIT DESCRIPTION

== =====

- 1 INSTALL OR REMOVE SEPARATELY MOUNTED LIGHTING ARRESTER OR FUSED CUT-OUT .
- 2 MATERIAL HANDLING.

GT-445 = .14685 HRS PER UNIT

GT-450

INSTALL PANEL BOARD TO WOOD (CIRCUIT BREAKER-TYPE, 50 TO 100 AMPS, SINGLE PHASE); CONNECT AND TEST CIRCUITS.

NO WORK UNIT DESCRIPTION

== =====

- 1 MOUNT PANEL BOARD ON WOO SURFACE - INCLUDES DISSEMBLY AND REASSEMBLY OF BRAKER UNITS AND COVER PLATES.
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50'100 AMPS).
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS .

GT-450 = .60535 HRS PER JOB
+ .06598 HRS PER CIRCUIT

GT-451

INSTALL PANEL BOARD TO CONCRETE (CIRCUIT BREAKER TYPE, 50-100 AMPS SINGLE-PHASE) CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

== =====

- 1 MOUNT PANEL BOARD ON CONCRETE-INCLUDES DISSASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES .
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50'100 AMPS).
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS.

GT-451 = .79561 HRS PER JOB
+ .09771 HRS PER CIRCUIT

GT-452

INSTALL PANEL BOARD ON STEEL COLUMN (CIRCUIT BREAKER TYPE, 50-100 AMPS SINGLE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON STEEL COLUMN - INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES .
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD 3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS. 3 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM ALIGN AND CONNECT CIRCUIT WIRES. 3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS.

GT-452 = 1.13426 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-453

INSTALL PANEL BOARD ON WOOD (CIRCUIT BREAKER-TYPE 50-100 AMPS, THREE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON WOOD - INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50-100 AMPS). 4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS. 4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES. 3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS.

GT-453 = .63842 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-454

INSTALL PANEL BOARD TO CONCRETE (CIRCUIT BREAKER TYPE, 50 TO 100 AMPS, THREE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON CONCRETE - INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50-100 AMPS). 4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS. 4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES. 3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS.

GT-454 = .86042 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-455

INSTALL PANEL BOARD ON STEEL COLUMN (CIRCUIT BREAKER TYPE, 50 TO 100 AMPS, THREE PHASE), CONNECT AND TEST CIRCUITS.

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON STEEL COLUMN - INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50-100 AMPS). 4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS. 4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES. 3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS .

GT-455 = 1.16733 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-456

INSTALL PANEL BOARD ON WOOD (CIRCUIT BREAKER TYPE , 225 AMPS, SINGLE PHASE), CONNECT AND TEST CIRCUITS

- NO WORK UNIT DESCRIPTION
 == =====
- 1 MOUNT PANEL BOARD ON WOOD-INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
 - 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMPS) .
3 SUPPLY LEADS PER JOB.
 - 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
 - 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
 - 5 LOCATE AND TEST CIRCUITS.

GT-456 = .63681 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-457

INSTALL PANEL BOARD ON CONCRETE (CIRCUIT BREAKER TYPE , 225 AMPS, SINGLE PHASE), CONNECT AND TEST CIRCUITS

- NO WORK UNIT DESCRIPTION
 == =====
- 1 MOUNT PANEL BOARD ON CONCRETE-INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
 - 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMPS) .
3 SUPPLY LEADS PER JOB.
 - 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
 - 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
 - 5 LOCATE AND TEST CIRCUITS.

GT-457 = .85881 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-458

INSTALL PANEL BOARD ON STEEL COLUMN (CIRCUIT BREAKER TYPE. 225 AMPS, SINGLE PHASE) . CONNECT AND TEST CIRCUITS.

- NO WORK UNIT DESCRIPTION
 == =====
- 1 MOUNT PANEL BOARD ON STEEL COLUMN-INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES .
 - 2 CUT , SEPARATE, FORM AND ALIGN INCLUDING SUPPLY LEAD (225 AMPS) .
3 SUPPLY LEADS PER JOB.
 - 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
 - 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
 - 5 LOCATE AND TEST CIRCUITS.

GT-458 = 1.16572 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-459

INSTALL PANEL BOARD ON WOOD (CIRCUIT BREAKER TYPE, 225 AMPS, THREE PHASE) , CONNECT AND TEST CIRCUIT

- NO WORK UNIT DESCRIPTION
 == =====
- 1 MOUNT PANEL BOARD ON WOOD - INCLUDES DISASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
 - 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMPS) .
4 SUPPLY LEADS PER JOB.
 - 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
 - 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
 - 5 LOCATE AND TEST CIRCUITS.

GT-459 = .67991 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-460

INSTALL PANEL BOARD ON CONCRETE (CIRCUIT BREAKER TYPE , 225 AMPS, THREE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON CONCRETE - INCLUDES DISSASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMPS) .
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 CIRCUIT WIRES PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS.

GT-460 = .90191 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-462

INSTALL AND CONNECT LARGE DISTRIBUTION PANEL BOARD (6 CIRCUIT, SINGLE POLE, 600 AMPS, SINGLE PHASE BREAKER-TYPE UNIT) MOUNTED ON WOOD

NO WORK UNIT DESCRIPTION

- 1 INSTALL LARGE POWER DISTRIBUTION SWITCH BOARD - INCLUDES UNCRATING, REMOVAL AND REINSTALLATION OF COVER, 2 LUG COVER PLATES AND 6 CIRCUIT BREAKER UNITS, DRILLING AND HANDSETTING 4 SCREWS.
- 2 CUT, FORM AND ALIGN INCOMING 3 HIRE SUPPLY LEADS.
2 PAIRS OF HIRE ENDS PER JOB.
- 3 CUT, FORM, AND ALIGN OUTGOING 2 MIRE UTILIZATION LEADS.
6 WIRES PER JOB.
- 4 INSTALL CONDUCTORS TO BOLT-TYPE TERMINAL CONNECTORS.
- 5 TEST 6 CIRCUITS.

GT-462 = 1.78812 HRS PER JOB

GT-461

INSTALL PANEL BOARD ON STEEL COLUMN (CIRCUIT BREAKER TYPE, 225 AMPS, THREE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON STEEL COLUMN - INCLUDES DISSASSEMBLY AND REASSEMBLY OF BREAKER UNITS AND COVER PLATES.
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMPS).
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT-TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT HIRES.
3 CIRCUIT MIRE PER CIRCUIT.
- 5 LOCATE AND TEST CIRCUITS.

GT-461 = 1.20882 HRS PER JOB
 + .06598 HRS PER CIRCUIT

GT-463

INSTALL AND CONNECT LARGE POWER DISTRIBUTION PANEL BOARD (6 CIRCUIT, SINGLE POLE, 400 AMPS, THREE PHASE, BREAKER-TYPE UNIT) TO STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 INSTALL LARGE POWER DISTRIBUTION SWITCH BOARD- INCLUDES UNCRATING, REMOVAL AND REINSTALLATION OF COVER, 2 LUG COVER PLATES AND 6 CIRCUIT BREAKER UNITS, FABRICATING AND INSTALLING 2 BRACKETS TO COLUMN AND CASING, DRILLING 12 HOLES AND INSTALLING 8 BOLTS.
- 2 CUT, FORM AND ALIGN INCOMING 4 WIRE SUPPLY LEADS.
2 PAIRS OF WIRE ENDS PER JOB.
- 3 CUT, FORM AND ALIGN OUTGOING 2 WIRE UTILIZATION LEADS.
6 WIRES PER JOB.
- 4 INSTALL CONDUCTORS TO BOLT-TYPE CONNECTORS.
- 5 TEST 6 CIRCUITS.

GT-463 = 2.31779 HRS PER JOB

GT-467

INSTALL PANEL BOARD ON WOO (50- 100 AMP, FUSIBLE PLUG TYPE, SINGLE PHASE) , CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON WOO SURFACE - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCH BLOCK UNITS AND COVER PLATES, DRILLING AND SETTING FOUR SCREW (TWO MEN).
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEADS.
5 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS .
5 SUPPLY LEADS PER JOB.
- 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-467 = .99110 HRS PER JOB
 + .07030 HRS PER CIRCUIT

GT -468

INSTALL PANEL BOARD ON CONCRETE (50 TO 100 AMP, FUSIBLE TYPE SINGLE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO CONCRETE SURFACE - INCLUDES REMOVAL FROM CARTON , REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCH BLOCK UNITS AND COVERS, DRILLING AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREW (TWO MEN).
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEADS.
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT , SEPARATE, FORM, AL 1 GM AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-468 = 1.15805 HRS PER JOB
 + .07030 HRS PER CIRCUIT

GT -469

INSTALL PANEL BOARD ON STEEL COLUMN (50 TO 100 AMP, FUSIBLE PLUG TYPE, SINGLE PHASE) , CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO STEEL COLUMN - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FABRICATING AND INSTALLING BRACKETS, DRILLING TWELVE HOLES, REMOVING AND INSTALLING FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVER PLATES (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEADS.
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-469 = 1.49829 HRS PER JOB
 + .07030 HRS PER CIRCUIT

GT-470

INSTALL PANEL BOARD ON WOOD (50 TO 100 AMP, FUSIBLE TYPE, THREE-PHASE) , CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON WOO SURFACE-INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCH BLOCK UNITS AND COVER PLATES, DRILLING AND SETTING FOUR SCREW (TWO MEN).
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50-100 AMP).
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS .

GT-470 = 1.02417 HRS PER JOB
 + .07030 HRS PER CIRCUIT

GT-471

INSTALL PANEL BOARD ON CONCRETE (50 TO 100 AMP, FUSIBLE PLUG TYPE, THREE-PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO CONCRETE SURFACE - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, N4 FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVERS, DRILLING AND INSTALLING EXPANSION SHIELDS (OR PLUGS) WITH SCREW (TWO MEN) .
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50-100 AMP).
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT , SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-471 = 1.15938 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-472

INSTALL PANEL BOARD ON STEEL COLUMN (50- 100 AMP, FUSIBLE PLUG TYPE , THREE-PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO STEEL COLUMN - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FABRICATING AND INSTALLING BRACKETS, DRILLING TWELVE HOLES, REMOVING AND INSTALLING FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVER PLATES (TWO MEN).
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (50-100 AMP).
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE , FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-472 = 1.53136 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT -473

INSTALL PANEL BOARD ON WOOD (225 AMP, FUSIBLE PLUG TYPE, SINGLE-PHASE) , CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON WOOD SURFACE - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCH BLOCK UNITS AND COVER PLATES, DRILLING AND SETTING FOUR SCREW (TWO MEN).
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMP).
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE , FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS .

GT-473 = 1.02256 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-474

INSTALL PANEL BOARD ON CONCRETE (225 AMP, FUSIBLE PLUG TYPE, SINGLE-PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO CONCRETE SURFACE - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVERS, DRILLING AND INSTALLING EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
- 2 CUT , SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMP) .
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS .

GT-474 = 1.18951 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-475

INSTALL PANEL BOARD ON STEEL COLUMN (225 AMP, FUSIBLE PLUG TYPE , SINGLE-PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO STEEL COLUMN - INCLUDES REMOVAL FROM CARTON , REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FABRICATING AND INSTALLING BRACKETS, DRILLING TWELVE HOLES, REMOVING AND INSTALLING FUSIBLE PLUG TYPE SWITCHBLOCK UNIT AND COVER PLATES (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEAD (225 AMP) .
3 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
3 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT HIRES.
3 HIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT .
- 6 LOCATE AND TEST CIRCUITS.

GT-475 = 1.52975 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-477

INSTALL PANEL BOARD ON CONCRETE (225 AMP, FUSIBLE PLUG TYPE, THREE PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO CONCRETE SURFACE - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVERS, DRILLING AND INSTALLING EXPANSION SHIELDS (OR PLUGS) WITH SCREW (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEADS.
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT HIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-477 = 1.23261 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-476

INSTALL PANEL BOARD ON WOOD (225 AMP, FUSIBLE PLUG TYPE, THREE-PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT PANEL BOARD ON WOOD SURFACE - INCLUDES REMOVAL FROM CARTON , REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVER PLATES, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEADS.
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-476 = 1.06566 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-478

INSTALL PANEL BOARD ON STEEL COLUMN (225 AMP, FUSIBLE PLUG TYPE, THREE-PHASE), CONNECT AND TEST CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 MOUNT FUSIBLE PLUG TYPE PANEL BOARD TO STEEL COLUMN - INCLUDES REMOVAL FROM CARTON, REMOVAL AND REINSTALLATION OF PANEL BOARD COVER, TOP AND BOTTOM LUG COVER PLATES, FABRICATING AND INSTALLING BRACKETS, DRILLING TWELVE HOLES, REMOVING AND INSTALLING FUSIBLE PLUG TYPE SWITCHBLOCK UNITS AND COVER PLATES (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN INCOMING SUPPLY LEADS.
4 SUPPLY LEADS PER JOB.
- 3 INSTALL BOLT TYPE CONNECTORS TO SUPPLY CONDUCTORS.
4 SUPPLY LEADS PER JOB.
- 4 CUT, SEPARATE, FORM, ALIGN AND CONNECT CIRCUIT WIRES.
3 WIRES IN CIRCUIT PER CIRCUIT.
- 5 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
2 FUSES PER CIRCUIT.
- 6 LOCATE AND TEST CIRCUITS.

GT-478 = 1.57284 HRS PER JOB
+ .07030 HRS PER CIRCUIT

GT-485

DISCONNECT AND REMOVE PANEL BOARD FROM WOOD (50 TO 100 AMP, SINGLE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREW)
- 2 DISCONNECT LEAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE L 1 NE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
3 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT END .
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES, 50-100 AMPS (LOAD SIDE).
3 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OR HEAVIER PANEL BOARD INTACT FROM CONCRETE OR WOOD SURFACE.

GT-485 = .18370 HRS PER PANEL
 + .05283 HRS PER CIRCUIT

GT-487

DISCONNECT AND REMOVE PANEL BOARD FROM CONCRETE OR WOOD (50 TO 100 AMP, THREE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREWS) .
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
4 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT ENDS.
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES, 50-100 AMPS (LOAD SIDE).
4 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OF HEAVIER PANEL BOARD INTACT FROM CONCRETE OR WOOD SURFACE.

GT-487 = .20628 HRS PER PANEL
 + .05283 HRS PER CIRCUIT

GT-486

DISCONNECT AND REMOVE PANEL BOARD FROM STEEL COLUMN (50 TO 100 AMP, SINGLE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREWS) .
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
3 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT END .
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES, 50-100 AMPS (LOAD SIDE).
3 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OR HEAVIER PANEL BOARD INTACT FROM STEEL COLUMN .

GT-486 = .34664 HRS PER PANEL
 + .05283 HRS PER CIRCUIT

GT-488

DISCONNECT AND REMOVE PANEL BOARD FROM STEEL COLUMN (50 TO 100 AMP, THREE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREWS) .
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
4 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT END.
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES 50-100 AMPS (LOAD SIDE).
4 SUPPLY LEADS PER PANEL.
- 10 REMOVE 60 POUND OR HEAVIER PANEL BOARD INTACT FROM STEEL COLUMN.

GT-488 = .36922 HRS PER PANEL
 + .05283 HRS PER CIRCUIT

GT-489

DISCONNECT AND REMOVE PANEL BOARD FROM WOOD OR CONCRETE (225 AMP, SINGLE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREWS).
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
3 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT END .
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES 225 AMPS (LOAD SIDE).
3 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OR HEAVIER PANEL BOARD INTACT FROM CONCRETE OR WOOD SURFACE.

$$GT-489 = .21516 \text{ HRS PER PANEL} + .05283 \text{ HRS PER CIRCUIT}$$

GT-491

DISCONNECT AND REMOVE PANEL BOARD FROM CONCRETE OR WOOD (225 AMP, THREE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREWS) .
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
4 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT ENDS.
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES, 225 AMPS (LOAD SIDE) .
4 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OR HEAVIER PANEL BOARD INTACT FROM CONCRETE OR WOOD SURFACE.

$$GT-491 = .24777 \text{ HRS PER PANEL} + .05283 \text{ HRS PER CIRCUIT}$$

GT-490

DISCONNECT AND REMOVE PANEL BOARD FROM STEEL COLUMN (225 AMP, SINGLE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREWS) .
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
3 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCK NUTS FROM CONDUIT ENDS IN CASING.
- 5 REMOVE BUSHING FROM CONDUIT END .
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES 225 AMPS (LOAD SIDE).
3 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OR HEAVIER PANEL BOARD INTACT FROM STEEL COLUMN .

$$GT-490 = .37810 \text{ HRS PER PANEL} + .05283 \text{ HRS PER CIRCUIT}$$

GT-492

DISCONNECT AND REMOVE PANEL BOARD FROM STEEL COLUMN (225 AMP, THREE PHASE BREAKER TYPE) AND CONTAINING CIRCUITS

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER (SIX SCREW).
- 2 DISCONNECT LOAD CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE LINE CONDUCTORS FROM BOLT-TYPE TERMINAL CONNECTORS.
4 SUPPLY LEADS PER PANEL.
- 4 REMOVE LOCKS NUTS FROM CONDUIT ENDS 1 N CASING.
- 5 REMOVE BUSHING FROM CONDUIT END.
- 6 LOOSEN NUTS ON CONDUIT AT CASING.
- 7 LOOSEN NUTS ON CONDUIT AT CASING.
- 8 STRAIGHTEN WIRES (LINE SIDE).
- 9 STRAIGHTEN WIRES, 225 AMPS (LOAD SIDE).
4 SUPPLY LEADS PER PANEL.
- 10 REMOVE 40 POUND OR HEAVIER PANEL BOARD INTACT FROM STEEL COLUMN .

$$GT-492 = .41071 \text{ HRS PER PANEL} + .05283 \text{ HRS PER CIRCUIT}$$

GT-495

INSTALL AND CONNECT ADDITIONAL BREAKER TYPE CIRCUITS IN EXISTING DISTRIBUTION PANEL BOARD

NO WORK UNIT DESCRIPTION

- 1 REMOVE PANEL BOARD COVER .
- 2 REMOVE PROTECTIVE COVER PLATE.
- 3 REMOVE CIRCUIT BREAKER FROM CARTON AND UNWRAP.
- 4 INSTALL UNIT TO CASING.
- 5 CUT, FORM, ALIGN AND CONNECT CIRCUIT WIRES. 3 WIRES IN BREAKER CIRCUIT PER BREAKER.
- 6 INSTALL PROTECTIVE COVER PLATE.
- 7 TEST CIRCUIT.
- 8 INSTALL PANEL BOARD COVER .

GT-495 = .15546 HRS PER JOB
 + .13087 HRS PER BREAKER

GT-496

INSTALL AND CONNECT ADDITIONAL FUSIBLE PLUG SWITCHBLOCK TYPE CIRCUITS IN EXISTING DISTRIBUTION

NO WORK UNIT DESCRIPTION

- 1 REMOVE PANEL BOARD COVER .
- 2 REMOVE PROTECTIVE COVER PLATE.
- 3 REMOVE FUSIBLE SWITCHBLOCK FROM CARTON AND UNWRAP .
- 4 INSTALL UNIT TO CASING.
- 5 CUT, FORM, ALIGN AND CONNECT THREE CIRCUIT WIRES. 3 CIRCUIT WIRES PER CIRCUIT.
- 6 INSTALL TWO PLUG TYPE FUSES.
- 7 INSTALL PROTECTIVE COVER PLATE.
- 8 TEST CIRCUIT.
- 9 INSTALL PANEL BOARD COVER.

GT-496 = .15546 HRS PER JOB
 + .13950 HRS PER CIRCUIT

GT-500

EMERGENCY GENERATORS: PREVENTIVE MAINTENANCE INSPECTION INCLUDES RUN, CHECK, TEST AND MINOR ADJUSTMENTS

NO WORK UNIT DESCRIPTION

- 1 PMI OF EMERGENCY GENERATORS.

GT-500 = .10631 HRS PER JOB

GT-501

TEST BONDING OF GROUNDING SYSTEM AT EIGHT TERMINAL POINTS ON STORAGE RACKS 1 N HIGH EXPLOSIVE MAGAZINE - INCLUDES WALKING AROUND AND INSIDE MAGAZINE, CONNECTING TEST EQUIPMENT AND READING INSTRUMENTS

NO WORK UNIT DESCRIPTION

- 1 TEST BONDING OF GROUNDING SYSTEM AT EIGHT TERMINAL POINTS ON STORAGE RACKS IN HIGH EXPLOSIVE MAGAZINES.

GT-501 = .18344 HRS PER JOB

GT-502

TEST BONDING OF GROUNDING SYSTEM AT TEN TERMINAL POINTS ON STORAGE RACKS IN SMOKELESS POWDER MAGAZINE - INCLUDES WALKING AROUND AND INSIDE MAGAZINE, CONNECTING TEST EQUIPMENT AND READING INSTRUMENTS

NO WORK UNIT DESCRIPTION

- 1 TEST BONDING OF GROUNDING SYSTEM AT TEN TERMINAL POINTS ON STORAGE RACKS IN SMOKELESS POWDER MAGAZINE.

GT-502 = .19602 HRS PER JOB

GT-503

CHECK RESISTANCE OF SEGMENT OF GROUNDING SYSTEM AT HIGH EXPLOSIVE OR SMOKELESS POWDER MAGAZINE AND INSTALL ONE ADDITIONAL JUMPER WIRE BETWEEN TWO EXTERNAL APPENDAGES - INCLUDES READING INSTRUMENT AND CONNECTING WIRE TO TWO TERMINAL POINTS

NO WORK UNIT DESCRIPTION

- 1 INSTALL ONE ADDITIONAL JUMPER WIRE BETWEEN ANY TWO EXTERNAL APPENDAGES AND TEST RESISTANCE OF SYSTEM OUTSIDE HIGH EXPLOSIVE MAGAZINE.

GT-503 = .21266 HRS PER JOB
 + .58199 HRS PER WIRE

GT-504

CHECK RESISTANCE OF GROUNDING SYSTEM AT SMOKELESS POWER MAGAZINE OR HIGH EXPLOSIVE MAGAZINE AND INSTALL ONE ADDITIONAL GROUND ROD - INCLUDES SETTING UP TEST EQUIPMENT, READING INSTRUMENT AND CONNECTING ROD TO SYSTEM

NO WORK UNIT DESCRIPTION

- 1 INSTALL ONE ADDITIONAL GROUND ROD AND TEST RESISTANCE OF SYSTEM OUTSIDE SMOKELESS POWDER MAGAZINE.

GT-504 = .21266 HRS PER JOB
 + .25557 HRS PER ROD

GT-505

MAKE OPERATIONAL TEST AND REPAIR OF ONE GROUNDING TERMINAL CONNECTION WITHIN A HIGH EXPLOSIVE MAGAZINE - INCLUDES SETTING UP TEST EQUIPMENT, CONNECTING PORTABLE GENERATOR. READING INSTRUMENT AND REPAIRING DEFECTIVE CONNECTION.

NO WORK UNIT DESCRIPTION

== =====
1 REPAIR ONE STORAGE GROUNDING TERMINAL AND TEST BONDING OF CONNECTION IN HIGH EXPLOSIVE MAGAZINE.

GT-505 = .17528 HRS PER JOB
+ .63124 HRS PER TERMINAL

GT-506

TRANSFORMERS : PREVENTIVE MAINTENANCE INSPECTION OF LARGE ENERGIZED TRANSFORMER IN BUILDING OR SURFACE MOUNTED IN OUTSIDE ENCLOSURE
ADD .01 HOURS FOR ANCI LLARY ACTIVITIES FOR EACH JOB SITE

NO WORK UNIT DESCRIPTION

== =====
1 PMI OF LARGE ENERGIZED TRANSFORMERS IN BUILDINGS AND/OR SURFACE MOUNTED OUTSIDE.

GT-506 = .29579 HRS PER JOB

GT-507

TRANSFORMERS: PREVENTIVE MAINTENANCE INSPECTION OF SMALL ENERGIZED TRANSFORMERS IN BUILDING OR SURFACE MOUNTED IN OUTSIDE ENCLOSURE
ADD .01 HOURS FOR ANCI LLARY ACTIVITIES FOR EACH JOB SITE

NO WORK UNIT DESCRIPTION

== =====
1 PMI OF SMALL ENERGIZED TRANSFORMERS IN BUILDINGS AND/OR SURFACE MOUNTED OUTSIDE .

GT-507 = .21484 HRS PER JOB

GT-515

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 8 OR SMALLER WIRES ON WOOD SURFACE

NO WORK UNIT DESCRIPTION

== =====
1 MOUNT CIRCUIT BREAKER CASING ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREW (TWO MEN).
2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK .
3 INSTALL BREAKER UNIT TO CASING.
4 CUT, FORM, ALIGN AND CONNECT CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
2 CIRCUIT WIRES PER CONNECTION.
FOR 2 POLE, WIRE = 2.
FOR 3 POLE, WIRE = 3.
5 CHECK OPERATION OF BREAKER.

GT-515 = .22580 HRS PER JOB
+ .03784 HRS PER WIRE

GT-516

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 6 WIRES ON WOOD SURFACE

NO WORK UNIT DESCRIPTION

== =====
1 MOUNT CIRCUIT BREAKER CASING ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
3 INSTALL BREAKER UNIT TO CASING.
4 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD -DIAGONALS USED.
WIRE = TOTAL NO. OF NO. 6 CIRCUIT WIRES.
5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
WIRE = TOTAL NO. OF NO. 6 CIRCUIT WIRES.
6 CHECK OPERATION OF BREAKER.

GT-516 = .22580 HRS PER JOB
+ .06613 HRS PER WIRE

GT-517

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 4 TO 2/O WIRES ON WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FROM AND ALIGN NO. 4 TO 2/O CIRCUIT WIRES (LOAD AND LINE SIDE) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - HACKSAW USED .
WIRE = TOTAL NO. OF NO. 4 TO 2/O CIRCUIT WIRES.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
WIRE = NO. OF NO. 4 TO 2/O CIRCUIT WIRES.
- 6 CHECK OPERATION OF BREAKER.

$$\begin{aligned}
 \text{GT-517} &= .22854 \text{ HRS PER JOB} \\
 &+ .08620 \text{ HRS PER WIRE}
 \end{aligned}$$

GT-518

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 8 OR SMALLER WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MINT CIRCUIT BREAKER ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON , FABRI - CATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, FORM, ALIGN AND CONNECT CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
2 CIRCUIT WIRES PER CONNECTION.
FOR 2 POLE, WIRE = 2.
FOR 3 POLE, WIRE = 3.
- 5 CHECK OPERATION OF BREAKER.

$$\begin{aligned}
 \text{GT-518} &= .73299 \text{ HRS PER JOB} \\
 &+ .03784 \text{ HRS PER WIRE}
 \end{aligned}$$

GT-519

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 6 WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRI - CATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREES BENDS EACH INTO SWITCH BOX OR PANEL BOARD - DIA-GONALS USED.
WIRE = TOTAL NO. OF NO. 6 CIRCUITS WIRES.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO HIRE ENDS AND TO TERMINAL, INCLUDES SKINNING WIRE END.
WIRE = TOTAL NO. OF NO. OF CIRCUIT WIRES.
- 6 CHECK OPERATION OF BREAKER.

$$\begin{aligned}
 \text{GT-519} &= .73299 \text{ HRS PER JOB} \\
 &+ .06613 \text{ HRS PER WIRE}
 \end{aligned}$$

GT-520

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 4 TO NUMBER 2/O WIRE ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRI - CATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO HEN).
- 2 REMOVE BREAKER UNITS FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FORM, AND ALIGN N NO. 4 TO 2/O CIRCUIT WIRES (LOAD AND LINE SIDE) WITH SIX 90 DEGREES BENDS EACH INTO WITCH BOX OR PANEL BOARD - HACKSAW USED.
WIRE = NO. OF NO. 4 TO 2/O CIRCUIT WIRES.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
WIRE = NO. OF CIRCUIT WIRES.
- 6 CHECK OPERATION OF BREAKER.

$$\begin{aligned}
 \text{GT-520} &= .73573 \text{ HRS PER JOB} \\
 &+ .08620 \text{ HRS PER WIRE}
 \end{aligned}$$

GT-521

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 8 OR SMALLER HIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FROM EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT , FORM ALIGN AND CONNECT CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
2 CIRCUIT WIRES PER CONNECTION.
FOR 2 POLE, WIRE = 2.
FOR 3 POLE, WIRE = 3.
- 5 CHECK OPERATION OF BREAKER.

GT-521 = .36003 HRS PER JOB
+ .03784 HRS PER WIRE

GT-522

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLES AND NUMBER 6 WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES, AND INSTALLING FOUR EXPANSION SHIELDS OR PLUGS) WITH SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT , SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - DIAGONALS USED .
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.

GT-522 = .36003 HRS PER JOB
+ .06613 HRS PER WIRE

GT-523

INSTALL AND CONNECT ONE INDUSTRIAL LINE CIRCUIT BREAKER (ANY AMPERAGE) - TWO OR THREE POLE AND NUMBER 4 TO NUMBER 2/0 WIRES ON CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES, AND INSTALL FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK .
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FORM AND ALIGN NO. 4 TO 2/0 CIRCUIT WIRES (LOAD AND LINE SIDE) WITH SIX 90 DEGREE ENDS EACH INTO SWITCH BOX OR PANEL BOARD - HACK-SAW USED.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.

GT-523 = .36277 HRS PER JOB
+ .08620 HRS PER WIRE

GT-524

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 8 OR SMALLER WIRES ON A WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT , FORM, ALIGN AND CONNECT CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
- 5 CHECK OPERATION OF BREAKER.
- 6 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 7 POSITION COVER PLATE .
- 8 INSTALL BOLTS.

GT-524 = .29305 HRS PER JOB
+ .03784 HRS PER WIRE

GT-525

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 6 WIRES ON A WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - DIAGONALS USED.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL - INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.
- 7 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 8 POSITION COVER PLATE.
- 9 INSTALL BOLTS.

GT-525 = .33960 HRS PER JOB
 + .06613 HRS PER WIRE

GT-526

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 4 TO NUMBER 2/O WIRES ON A WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FORM AND ALIGN NO. 4 TO 2/O CIRCUIT WIRES (LOAD AND LINE SIDE) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - HACKSAW USED.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL - INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.
- 7 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 8 POSITION COVER PLATE.
- 9 INSTALL BOLTS.

GT-526 = .34234 HRS PER JOB
 + .08620 HRS PER WIRE

GT-527

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 8 OR SMALLER WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON FABRICATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, FORM, ALIGN AND CONNECT CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
- 5 CHECK OPERATION OF BREAKER.
- 6 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 7 POSITION COVER PLATE.
- 8 INSTALL BOLTS.

GT-527 = .80024 HRS PER JOB
 + .03784 HRS PER WIRE

GT-528

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 6 WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRICATING AND INSTALL 2 BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - DIAGONALS USED.
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL - INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.
- 7 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 8 POSITION COVER PLATE.
- 9 INSTALL BOLTS.

GT-528 = .84679 HRS PER JOB
 + .06613 HRS PER WIRE

GT-529

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 4 TO NUMBER 2/O WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRICATING AND INSTALL 2 BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT , SEPARATE, FORM AND ALIGN NO. 4 TO 2/O CIRCUIT WIRES (LOAD AND LINE SIDE)WITH 6- 90 DEGREE BENDS EACH INTO WITCH BOX OR PANEL BOARD - HACKSAW USED .
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL - INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.
- 7 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 8 POSIT ION COVER PLATE .
- 9 INSTALL BOLTS.

GT-529 = .84953 HRS PER JOB
 + .08620 HRS PER WIRE

GT-531

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 6 WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT , SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - DIAGONALS USED .
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.
- 7 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 8 POSITION COVER PLATE.
- 9 INSTALL BOLTS.

GT-531 = .47383 HRS PER JOB
 + .06613 HRS PER WIRE

GT-530

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 8 OR SMALLER WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER CASING ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN). REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT, FORM, ALIGN AND CONNECT CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
- 5 CHECK OPERATION OF BREAKER.
- 6 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OR DUST-TIGHT FIXTURE).
- 7 POSITION COVER PLATE.
- 8 INSTALL BOLTS.

GT-530 = .42728 HRS PER JOB
 + .03784 HRS PER WIRE

GT-532

INSTALL AND CONNECT ONE EXPLOSION-PROOF/WATER OR DUST-TIGHT CIRCUIT BREAKER (ANY AMPERAGE), TWO OR THREE POLES AND NUMBER 4 TO NUMBER 2/O WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT CIRCUIT BREAKER ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON , DRILLING FOUR HOLES, AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
- 2 REMOVE BREAKER UNIT FROM CARTON AND UNPACK.
- 3 INSTALL BREAKER UNIT TO CASING.
- 4 CUT , SEPARATE, FORM AND ALIGN NO. 4 TO 2/O CIRCUIT WIRES (LOAD AND LINE SIDE)WITH 6- 90 DEGREE BENDS EACH INTO SWITCH BOX OR PANEL BOARD - HACKSAW USED .
- 5 INSTALL SOLDERLESS SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 6 CHECK OPERATION OF BREAKER.
- 7 INSTALL GASKET (FOR EXPLOSION-PROOF FIXTURE ONLY; DO NOT INCLUDE FOR WATER OF DUST-TIGHT FIXTURE).
- 8 POSITION COVER PLATE.
- 9 INSTALL BOLTS.

GT-532 = .47657 HRS PER JOB
 + .08620 HRS PER WIRE

GT-535

INSTALL AND CONNECT ONE, NON-FUSIBLE SAFETY SWITCH (ANY AMPERAGE) , SINGLE OR DOUBLE THROW, TWO, THREE, OR FOUR POLES WITH NUMBER 8 OR SMALLER WIRES ON A WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREW (TWO MEN).
 - 2 CUT, FORM AND ALIGN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
 - 3 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)
- GT-535 = .15301 HRS PER JOB
 + .03784 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-536

INSTALL AND CONNECT ONE NON-FUSIBLE SAFETY SWITCH (ANY AMPERAGE). SINGLE OR DOUBLE THROW. TWO, THREE OR FOUR POLES AND NUMBER 6 WIRES ON A WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREW (TWO MEN).
 - 2 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - DIAGONALS USED.
 - 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL - INCLUDES SKINNING WIRE END.
 - 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)
- GT-536 = .15301 HRS PER JOB
 + .06613 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-537

INSTALL AND CONNECT ONE NON-FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 4 TO NUMBER 2/0 WIRES ON A WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREW (TWO MEN).
 - 2 CUT , SEPARATE, FORM AND ALIGN NO. 4 TO 2/0 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - HACKSAW USED .
 - 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
 - 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)
- GT-537 = .15575 HRS PER JOB
 + .08620 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-538

INSTALL AND CONNECT ONE NON-FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 8 OR SMALLER WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRICATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN) .
 - 2 CUT, FORM AND ALIGN NO. 8 OR SMALLER CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
 - 3 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)
- GT-538 = .66020 HRS PER JOB
 + .03784 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-539

INSTALL AND CONNECT ONE NON-FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 6 THROUGH NUMBER 2/0 WIRES ON A STEEL SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRICATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
 - 2 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - DIAGONALS USED.
 - 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE ENDS.
 - 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)
- GT-539 = .66020 HRS PER JOB
 + .06613 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-541

INSTALL AND CONNECT ONE NON-FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 8 OR SMALLER WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREW (TWO MEN).
 - 2 CUT, FORM AND ALIGN NO. 8 OR SMALLER CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
 - 3 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)
- GT-541 = .28724 HRS PER JOB
 + .03784 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-542

INSTALL AND CONNECT ONE NON- FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 6 THROUGH NUMBER 2/0 WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - DIAGONALS USED.
- 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-542 = .28724 HRS PER JOB
 + .06613 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-546

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 4 TO NUMBER 2/0 WIRES ON WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN NO. 4 TO 2/0 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - HACKSAW USED.
- 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 4 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
- 5 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-546 = .16007 HRS PER JOB
 + .08835 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-544

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 8 OR SMALLER WIRES ON WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 CUT, FORM AND ALIGN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
- 3 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
- 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-544 = .15733 HRS PER JOB
 + .04000 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-547

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 8 OR SMALLER WIRES ON STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRICATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
- 2 CUT, FORM AND ALIGN NO. 8 OR SMALLER CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
- 3 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
- 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-547 = .66452 HRS PER JOB
 + .04000 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-545

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 6 WIRES ON WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 MOUNT SAFETY SWITCH ON WOOD SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING AND SETTING FOUR SCREWS (TWO MEN).
- 2 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - DIAGONALS USED.
- 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
- 4 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
- 5 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-545 = .15733 HRS PER JOB
 + .06829 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT - 548

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 6 THROUGH NUMBER 2/0 WIRES ON A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- == =====
- 1 MOUNT SAFETY SWITCH ON NARROW STEEL COLUMN - INCLUDES REMOVAL FROM CARDBOARD CARTON, FABRICATING AND INSTALLING TWO BRACKETS TO COLUMN AND CASING USING EIGHT BOLTS AND NUTS, INCLUDING 12 HOLES IN STEEL (TWO MEN).
 - 2 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - DIAGONALS USED.
 - 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
 - 4 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
 - 5 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-548 = .66452 HRS PER JOB
 + .06829 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-550

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 8 OR SMALLER WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- == =====
- 1 MOUNT SAFETY SWITCH ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
 - 2 CUT, FORM AND ALIGN NO. 8 OR SMALLER CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
 - 3 INSTALL PLUG OR CARTRIDGE TYPE FUSES.
 - 4 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-550 = .29156 HRS PER JOB
 + .04000 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-551

INSTALL AND CONNECT ONE FUSIBLE SAFETY SWITCH (ANY AMPERAGE), SINGLE OR DOUBLE THROW, TWO, THREE OR FOUR POLES AND NUMBER 6 THROUGH NUMBER 2/0 WIRES ON A CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- == =====
- 1 MOUNT SAFETY SWITCH ON CONCRETE SURFACE - INCLUDES REMOVAL FROM CARDBOARD CARTON, DRILLING FOUR HOLES AND INSTALLING FOUR EXPANSION SHIELDS (OR PLUGS) WITH SCREWS (TWO MEN).
 - 2 CUT, SEPARATE, FORM AND ALIGN NO. 6 CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) WITH SIX 90 DEGREE BENDS EACH INTO SWITCH BOX - DIAGONALS USED.
 - 3 INSTALL SOLDERLESS, SCREW TYPE LUG TO WIRE END AND TO TERMINAL, INCLUDES SKINNING WIRE END.
 - 4 INSTALL PLUGS OR CARTRIDGE TYPE FUSES.
 - 5 CHECK OPERATION OF SWITCH (SINGLE OR DOUBLE THROW)

GT-551 = .29156 HRS PER JOB
 + .06829 HRS PER WIRE
 + .00922 HRS PER SWITCH

GT-560

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE), TWO (2) OR THREE (3) POLES WITH NUMBER 8 OR SMALLER WIRES (INDUSTRIAL CIRCUIT) FROM WOOD OR CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- == =====
- 1 REMOVE COVER PLATE.
 - 2 DISCONNECT CONDUCTORS FROM SCREW TERMINALS.
 - 3 REMOVE BREAKER UNIT FROM CASING.
 - 4 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
 - 5 REMOVE LOCKNUTS FROM CONDUIT IN CASING.
 - 6 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS).
 - 7 REMOVE ONE HOLE CLAMP OR CL 1P.
 - 8 REMOVE CASING FROM WOOD OR CONCRETE SURFACES.

GT-560 = .20237 HRS PER JOB
 + .02078 HRS PER WIRE

GT-561

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE), TWO (2) OR THREE (3) POLES, NUMBER 6 OR LARGER WIRES (INDUSTRIAL CIRCUIT) FROM WOOD OR CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER PLATE.
- 2 REMOVE SOLDERLESS, SCREW TYPE LUGS FROM TERMINAL AND WIRE ENDS.
- 3 REMOVE BREAKER UNIT FROM CASING.
- 4 LOOSEN LOCKNUTS ON CONDUIT ENDS IN CASING.
- 5 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 6 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 6 OR LARGER CIRCUIT WIRES.
- 7 REMOVE TWO HOLE CLAMP OR CL 1P.
- 8 REMOVE CASING FROM WOOD OR CONCRETE SURFACE.

GT-561 = .21991 HRS PER JOB
 + .04420 HRS PER WIRE

GT - 564

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE) , EXPLOSION-PROOF/WATER OR DUST TIGHT, TWO (2) OR THREE (3) POLES WITH NUMBER 8 OR SMALLER WIRES FROM WOOD OR CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER BOLTS.
- 2 REMOVE COVER PLATE.
- 3 DISCONNECT CONDUCTORS FROM SCREW TERMINALS.
- 4 REMOVE BREAKER UNIT FROM CASING.
- 5 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
- 6 REMOVE LOCKNUTS FROM CONDUIT 1 N CASING.
- 7 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)
- 8 REMOVE ONE HOLE CLAMP OR CLIP.
- 9 REMOVE CASING FROM WOOD OR CONCRETE SURFACE.

GT-564 = .25499 HRS PER JOB
 + .02078 HRS PER WIRE

GT-562

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE), TWO (2) OR THREE (3) POLES WITH NUMBER 8 OR SMALLER WIRES (INDUSTRIAL CIRCUIT) FROM STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER PLATE .
- 2 DISCONNECT CONDUCTORS FROM SCREW TERMINALS.
- 3 REMOVE BREAKER UNIT FROM CASING.
- 4 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
- 5 REMOVE LOCKNUTS FROM CONDUIT IN CASING.
- 6 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)
- 7 REMOVE ONE HOLE CLAMP OR CLIP.
- 8 REMOVE CASING FROM A STEEL COLUMN.

GT-562 = .32644 HRS PER JOB
 + .02078 HRS PER WIRE

GT-565

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE) , EXPLOSION-PROOF/WATER OR DUST TIGHT, TWO (2) OR THREE (3) POLES WITH NUMBER 6 OR LARGER WIRES FROM WOOD OR CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER BOLTS.
- 2 REMOVE COVER PLATE.
- 3 REMOVE SOLDERLESS, SCREW TYPE LUGS FROM TERMINAL AND WIRE ENDS.
- 4 REMOVE BREAKER UNIT FROM CASING.
- 5 LOOSEN LOCKNUTS ON CONDUIT ENDS IN CASING.
- 6 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 7 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 6 OR LARGER CIRCUIT WIRES.
- 8 REMOVE TWO HOLE CLAMP OR CL 1P.
- 9 REMOVE CASING FROM WOOD OR CONCRETE SURFACE.

GT-565 = .30761 HRS PER JOB
 + .04420 HRS PER WIRE

GT-563

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE), TWO (2) OR THREE (3) POLES WITH NUMBER 6 OR LARGER WIRES (INDUSTRIAL CIRCUIT) FROM A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER PLATE.
- 2 REMOVE SOLDERLESS, SCREW TYPE LUGS FROM TERMINAL AND WIRE ENDS.
- 3 REMOVE BREAKER UNIT FROM CASING .
- 4 LOOSEN LOCKNUTS ON CONDUIT ENDS IN CASING.
- 5 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 6 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 6 OR LARGER CIRCUIT WIRES.
- 7 REMOVE TWO HOLE CLAMP OR CLIP.
- 8 REMOVE CASING FROM STEEL COLUMN.

GT-563 = .34398 HRS PER JOB
 + .04420 HRS PER WIRE

GT-566

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE) , EXPLOSION-PROOF/WATER OR DUST TIGHT, TWO (2) OR THREE (3) POLES WITH NUMBER 8 OR SMALLER WIRES FROM A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER BOLTS.
- 2 REMOVE COVER PLATE.
- 3 DISCONNECT CONDUCTORS FROM SCREW TERMINALS.
- 4 REMOVE BREAKER UNIT FROM CASING.
- 5 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
- 6 REMOVE LOCKNUTS FROM CONDUIT IN CASING.
- 7 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS)
- 8 REMOVE ONE HOLE CLAMP OR CL 1 P .
- 9 REMOVE CASING FROM A STEEL COLUMN.

GT-566 = .37906 HRS PER JOB
 + .02078 HRS PER WIRE

GT-567

DISCONNECT AND REMOVE ONE (1) CIRCUIT BREAKER (ANY AMPERAGE), EXPLOSION-PROOF/WATER OR DUST TIGHT, TWO (2) OR THREE (3) POLES WITH NUMBER 6 OR LARGER WIRES FROM A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER BOLTS .
- 2 REMOVE COVER PLATE .
- 3 REMOVE SOLDERLESS, SCREW TYPE LUGS FROM TERMINAL AND WIRE ENDS.
- 4 REMOVE BREAKER UNIT FROM CASING.
- 5 LOOSEN LOCKNUTS ON CONDUITS ENDS IN CASING.
- 6 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING .
- 7 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 6 OR LARGER CIRCUIT WIRES.
- 8 REMOVE TWO HOLE CLAMP OR CLIP.
- 9 REMOVE CASING FROM A STEEL COLUMN.

$$\begin{aligned} \text{GT-567} &= .43168 \text{ HRS PER JOB} \\ &+ .04420 \text{ HRS PER WIRE} \end{aligned}$$

GT-568

DISCONNECT AND REMOVE ONE (1) SAFETY SWITCH (ANY AMPERAGE, FUSIBLE OR NON-FUSIBLE), TWO (2), THREE (3) OR FOUR (4) POLES, WITH NUMBER 8 OR SMALLER WIRES FROM CONCRETE OR WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 DISCONNECT CONDUCTORS FROM SCREW TERMINALS.
- 2 LOOSEN LOCKNUTS ON CONDUITS IN CASING.
- 3 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 4 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) OF NO. 8 OR SMALLER CIRCUIT WIRES.
- 5 REMOVE ONE HOLE CLAMP OR CLIP.
- 6 REMOVE SAFETY SWITCH INTACT FROM WOOD OR CONCRETE SURFACE .

$$\begin{aligned} \text{GT-568} &= .02078 \text{ HRS PER WIRE} \\ &+ .09838 \text{ HRS PER JOB} \end{aligned}$$

GT-569

DISCONNECT AND REMOVE ONE SAFETY SWITCH (ANY AMPERAGE, FUSIBLE OR NON-FUSIBLE), TWO, THREE OR FOUR POLES WITH NUMBER 6 OR LARGER WIRES FROM WOOD OR CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 REMOVE SOLDERLESS, SCREW TYPE LUGS FROM TERMINAL AND WIRE ENDS.
- 2 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
- 3 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 4 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 6 OR LARGER CIRCUIT WIRES.
- 5 REMOVE TWO HOLE CLAMP OR CLIP .
- 6 REMOVE SAFETY SWITCH INTACT FROM WOOD OR CONCRETE SURFACE .

$$\begin{aligned} \text{GT-569} &= .02984 \text{ HRS PER WIRE} \\ &+ .11593 \text{ HRS PER JOB} \end{aligned}$$

GT-570

DISCONNECT AND REMOVE ONE SAFETY SWITCH (ANY AMPERAGE, FUSIBLE OR NON-FUSIBLE), TWO, THREE OR FOUR POLES WITH NUMBER 8 OR SMALLER WIRES FROM A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 DISCONNECT CONDUCTORS FROM SCREW TERMINALS.
- 2 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
- 3 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 4 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 8 OR SMALLER CIRCUIT WIRES.
- 5 REMOVE ONE HOLE CLAMP OR CLIP.
- 6 REMOVE SAFETY SWITCH INTACT FROM A STEEL COLUMN.

$$\begin{aligned} \text{GT-570} &= .02078 \text{ HRS PER WIRE} \\ &+ .22246 \text{ HRS PER JOB} \end{aligned}$$

GT-571

DISCONNECT AND REMOVE ONE SAFETY SWITCH (ANY AMPERAGE, FUSIBLE OR NON-FUSIBLE), TWO, THREE OR FOUR POLES WITH NUMBER 6 OR LARGER WIRES FROM A STEEL COLUMN

NO WORK UNIT DESCRIPTION

- 1 REMOVE SOLDERLESS, SCREW TYPE LUGS FROM TERMINAL AND WIRE ENDS .
- 2 LOOSEN LOCKNUTS ON CONDUIT IN CASING.
- 3 REMOVE LOCKNUTS FROM CONDUIT ENDS IN CASING.
- 4 STRAIGHTEN CIRCUIT WIRES (LOAD AND LINE SIDE ENDS) FOR NO. 6 OR LARGER CIRCUIT ENDS.
- 5 REMOVE TWO HOLE CLAMP OR CLIP.
- 6 REMOVE SAFETY SWITCH INTACT FROM A STEEL COLUMN.

$$\begin{aligned} \text{GT-571} &= .02984 \text{ HRS PER WIRE} \\ &+ .24000 \text{ HRS PER JOB} \end{aligned}$$

GT-572

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET . INCLUDES PULL CONDUCTORS. ASSEMBLE AND INSTALL NEW FIXTURE, CONDUCTOR WIRES PULLED

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE .
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

$$\text{GT-572} = 1.05852 \text{ HRS PER JOB}$$

GT-573

DISASSEMBLE AND REMOVE STEM MOUNTED TWO OR FOUR TUBE , OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE . INCLUDES PULL CONDUCTORS. ASSEMBLE AND INSTALL INTERCONNECTED FIXTURES FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET , CONDUCTOR WIRES PULLED

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED FIXTURE TO OVERHEAD JUNCTION BOX AND CEILING BRACKET

GT-573 = 1.32556 HRS PER JOB

GT-576

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL ADJACENT TO JUNCTION BOX WITH CONDUCTOR WIRES PULLED.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

GT-576 = 1.19683 HRS PER JOB

GT-574

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL SURFACE MOUNTED FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET. DOES NOT INCLUDE HOOK-UP TIME

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT FIXTURE

GT-574 = .68453 HRS PER JOB

GT-577

DISASSEMBLE AND REMOVE STEM MOUNTED , TWO OR FOUR TUBE . OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL INTERCONNECTED, STEM MOUNTED FIXTURE ADJACENT TO JUNCTION BOX WITH CONDUCTOR WIRES PULLED.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED FLUORESCENT FIXTURE

GT-577 = 1.09041 HRS PER JOB

GT-575

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL INTERCONNECTED , SURFACE MOUNTED FIXTURE, FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED , SURFACE MOUNTED FLUORESCENT FIXTURE

GT-575 = 1.00881 HRS PER JOB

GT-578

DISASSEMBLE AND REMOVE STEM MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM . ASSEMBLE AND INSTALL SURFACE MOUNTED FIXTURE ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT FIXTURE

GT-578 = .86361 HRS PER JOB

GT-579

DISASSEMBLE AND REMOVE STEM MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL INTERCONNECTED, SURFACE MOUNTED FIXTURE MOUNTED ADJACENT TO JUCTION BOX.

NO WORK UNIT DESCRIPTION
 == =====

1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
 2 ASSEMBLE AND INSTALL INTERCONNECTED SURFACE MOUNTED FLUORESCENT FIXTURE

GT-579 = 1.25821 HRS PER JOB

GT-582

DISASSEMBLE AND REMOVE SURFACE MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL STEM MOUNTED TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING BRACKET

NO WORK UNIT DESCRIPTION
 == =====

1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

GT-582 = .93493 HRS PER JOB

GT-580

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE , OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL SURFACE MOUNTED, OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX

NO WORK UNIT DESCRIPTION
 == =====

1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
 2 ASSEMBLE AND INSTALL SURFACE MOUNTED INCANDESCENT FIXTURE

GT-580 = .58316 HRS PER JOB

GT-583

DISASSEMBLE AND REMOVE SURFACE MOUNTED , TWO OR FOUR TUBE OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET WITH CONDUCTOR WIRES PULLED .

NO WORK UNIT DESCRIPTION
 == =====

1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED FLUORESCENT FIXTURE

GT-583 = 1.20197 HRS PER JOB

GT-581

DISASSEMBLE AND REMOVE STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE WITH CONDUCTORS IN STEM. ASSEMBLE AND INSTALL STEM MOUNTED , OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX.

NO WORK UNIT DESCRIPTION
 == =====

1 DISASSEMBLE AND REMOVE STEM MOUNTED FLUORESCENT FIXTURE
 2 ASSEMBLE AND INSTALL STEM MOUNTED INCANDESCENT FIXTURE

GT-581 = .87628 HRS PER JOB

GT-584

DISASSEMBLE AND REMOVE SURFACE MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL SURFACE MOUNTED FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET. NO HOOK UP TIME.

NO WORK UNIT DESCRIPTION
 == =====

1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT FIXTURE

GT-584 = .56094 HRS PER JOB

GT-585

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE , OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE . ASSEMBLE AND INSTALL INTER-CONNECTED FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED FLUORESCENT FIXTURE

GT -585 = .88522 HRS PER JOB

GT - 588

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO) OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL SURFACE MOUNTED FIXTURE ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT FIXTURE

GT-588 = .74002 HRS PER JOB

GT-586

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL STEM MOUNTED FIXTURE ADJACENT TO JUNCTION BOX WITH CONDUCTOR HIRES PULLED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

GT-586 = 1.07324 HRS PER JOB

GT-589

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL INTER-CONNECTED SURFACE MOUNTED FIXTURE ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED SURFACE MOUNTED FLUORESCENT FIXTURE

GT-589 = 1.13462 HRS PER JOB

GT-587

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL INTER-CONNECTED, STEM MOUNTED FIXTURE ADJACENT TO JUNCTION BOX WITH CONDUCTOR WIRES PULLED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED FLUORESCENT FIXTURE

GT-587 = .96682 HRS PER JOB

GT-590

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE. ASSEMBLE AND INSTALL SURFACE MOUNTED, OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED INCANDESCENT FIXTURE

GT-590 = .45957 HRS PER JOB

GT-591

DISASSEMBLE AND REMOVE SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE . ASSEMBLE AND INSTALL STEM MOUNTED OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED FLUORESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED INCANDESCENT FIXTURE

GT-591 = .75269 HRS PER JOB

GT-594

DISASSEMBLE AND REMOVE SURFACE MOUNTED, INCANDESCENT FIXTURES. ASSEMBLE AND INSTALL SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET . NO HOOK UP TIME.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURES
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT FIXTURE

GT-594 = .43391 HRS PER JOB

GT-592

DISASSEMBLE AND REMOVE SEPERATE SURFACE MOUNTED INCANDESCENT FIXTURE. ASSEMBLE AND INSTALL STEM MOUNTED, TWO OR FOUR TUBE OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET WITH CONDUCTOR WIRES PULLED.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

GT-592 = .80790 HRS PER JOB

GT-595

DISASSEMBLE AND REMOVE SURFACE MOUNTED, INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL INTER-CONNECTED, SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED SURFACE MOUNTED FLUORESCENT FIXTURE

GT-595 = .75819 HRS PER JOB

GT-593

DISASSEMBLE AND REMOVE INTERCONNECTED SURFACE MOUNTED, INCANDESCENT FIXTURE. ASSEMBLE AND INSTALL INTERCONNECTED , STEM MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET, CONDUCTORS PULLED

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE INTERCONNECTED SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED FLUORESCENT FIXTURE

GT-593 = 1.07494 HRS PER JOB

GT-596

DISASSEMBLE AND REMOVE SURFACE MOUNTED , INCANDESCENT FIXTURES. ASSEMBLE AND INSTALL STEM MOUNTED TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE ADJACENT TO JUNCTION BOX WITH CONDUCTORS PULLED.

NO WORK UNIT DESCRIPTION

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURES
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

GT-596 = .94621 HRS PER JOB

GT-597

DISASSEMBLE AND REMOVE SURFACE MOUNTED, INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED, STEM MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE MOUNTED ADJACENT TO JUNCTION BOX WITH CONDUCTORS PULLED .

NO WORK UNIT DESCRIPTION

== =====

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED FLUORESCENT FIXTURE

GT-597 = .83979 HRS PER JOB

GT-598

DISASSEMBLE AND REMOVE SURFACE MOUNTED , INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL SURFACE MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE MOUNTED ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

== =====

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT FIXTURE

GT-598 = .61299 HRS PER JOB

GT-599

DISASSEMBLE AND REMOVE SURFACE MOUNTED , INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED , SURFACE MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE MOUNTED ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

== =====

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED SURFACE MOUNTED FLUORESCENT FIXTURE

GT-599 = 1.00759 HRS PER JOB

GT-600

DISASSEMBLE AND REMOVE SURFACE MOUNTED , INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL SURFACE MOUNTED, OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX .

NO WORK UNIT DESCRIPTION

== =====

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED INCANDESCENT FIXTURE

GT -600 = .33254 HRS PER JOB

GT-601

DISASSEMBLE AND REMOVE SURFACE MOUNTED, INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL STEM MOUNTED, OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX.

NO WORK UNIT DESCRIPTION

== =====

- 1 DISASSEMBLE AND REMOVE SURFACE MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED INCANDESCENT FIXTURE

GT-601 = .62566 HRS PER JOB

GT-602

DISASSEMBLE AND REMOVE STEM MOUNTED , INCANDESCENT FIXTURE. ASSEMBLE AND INSTALL STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED BRACKET WITH CONDUCTORS WIRES PULLED .

NO WORK UNIT DESCRIPTION

== =====

- 1 DISASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT FIXTURE

GT-602 = .83351 HRS PER JOB

GT-603

DI SASSEMBLE AND REMOVE STEM MOUNTED , INCANDESCENT
FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED, STEM
MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR
DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE FASTENED
TO OVERHEAD JUNCTION BOX AND CEILING MOUNTED
BRACKET WITH CONDUCTOR WIRES PULLED.

NO WORK UNIT DESCRIPTION

== =====

- 1 DI SASSEMBLE AND REMOVE STEM MOUNTED
INCANDESCENT FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED
FLUORESCENT FIXTURE

GT -603 = 1.10055 HRS PER JOB

GT-606

DI SASSEMBLE AND REMOVE STEM MOUNTED, INCANDESCENT
FIXTURE. ASSEMBLE AND INSTALL STEM MOUNTED , TWO
OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER
TYPE FLUORESCENT FIXTURE ADJACENT TO JUNCTION BOX
WITH CONDUCTOR WIRES PULLED .

NO WORK UNIT DESCRIPTION

== =====

- 1 DI SASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT
FIXTURE
- 2 ASSEMBLE AND INSTALL STEM MOUNTED FLUORESCENT
FIXTURE

GT-606 = .97182 HRS PER JOB

GT-604

DI SASSEMBLE AND REMOVE STEM MOUNTED , INCANDESCENT
FIXTURES. ASSEMBLE AND INSTALL SURFACE MOUNTED ,
TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/
LOUVER TYPE FLUORESCENT FIXTURE FASTENED TO OVER-
HEAD JUNCTION BOX AND CEILING MOUNTED BRACKET
(NO HOOK-UP TIME)

NO WORK UNIT DESCRIPTION

== =====

- 1 DI SASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT
FIXTURES
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT
FIXTURE

GT-604 = .45952 HRS PER JOB

GT-607

DI SASSEMBLE AND REMOVE STEM MOUNTED, INCANDESCENT
FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED ,
STEM MOUNTED, TWO OR FOUR TUBE, OPEN REFLECTOR OR
DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE ADJACENT
TO JUNCTION BOX WITH CONDUCTOR WIRES PULLED.

NO WORK UNIT DESCRIPTION

== =====

- 1 DI SASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT
FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED STEM MOUNTED
FLUORESCENT FIXTURE

GT-607 = .86540 HRS PER JOB

GT-605

DI SASSEMBLE AND REMOVE STEM MOUNTED, INCANDESCENT
FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED,
SURFACE MOUNTED, TWO OR FOUR TUBE OPEN REFLECTOR
OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE
FASTENED TO OVERHEAD JUNCTION BOX AND CEILING
MOUNTED BRACKET .

NO WORK UNIT DESCRIPTION

== =====

- 1 DI SASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT
FIXTURE
- 2 ASSEMBLE AND INSTALL INTERCONNECTED SURFACE
MOUNTED FLUORESCENT FIXTURE

GT-605 = .78380 HRS PER JOB

GT-608

DI SASSEMBLE AND REMOVE STEM MOUNTED, INCANDESCENT
FIXTURE. ASSEMBLE AND INSTALL SURFACE MOUNTED, TWO
OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER
TYPE FLUORESCENT FIXTURE ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

== =====

- 1 DI SASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT
FIXTURE
- 2 ASSEMBLE AND INSTALL SURFACE MOUNTED FLUORESCENT
FIXTURE

GT-608 = .63860 HRS PER JOB

GT-609

DISASSEMBLE AND REMOVE STEM MOUNTED , INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL INTERCONNECTED , SURFACE MOUNTED , TWO OR FOUR TUBE, OPEN REFLECTOR OR DIFFUSER/LOUVER TYPE FLUORESCENT FIXTURE ADJACENT TO JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT FIXTURE
 - 2 ASSEMBLE AND INSTALL INTERCONNECTED SURFACE MOUNTED FLUORESCENT FIXTURE

GT-609 = 1.03320 HRS PER JOB

GT-610

DISASSEMBLE AND REMOVE STEM MOUNTED , INCANDESCENT FIXTURE . ASSEMBLE AND INSTALL SURFACE MOUNTED OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT FIXTURE
 - 2 ASSEMBLE AND INSTALL SURFACE MOUNTED INCANDESCENT FIXTURE

GT-610 = .35815 HRS PER JOB

GT-611

DISASSEMBLE AND REMOVE STEM MOUNTED, INCANDESCENT FIXTURE. ASSEMBLE AND INSTALL STEM MOUNTED , OPEN OR CLOSED REFLECTOR INCANDESCENT FIXTURE FASTENED TO OVERHEAD JUNCTION BOX.

NO WORK UNIT DESCRIPTION

- == =====
- 1 DISASSEMBLE AND REMOVE STEM MOUNTED INCANDESCENT FIXTURE
 - 2 ASSEMBLE AND INSTALL STEM MOUNTED INCANDESCENT FIXTURE

GT-611 = .65127 HRS PER JOB

GT-612

INSTALL ELECTRICAL COMPONENT (LIGHT, FAN, ETC.) IN SUSPENDED CEILING
DOES NOT INCLUDE ASSEMBLY OF COMPONENT

NO WORK UNIT DESCRIPTION

- == =====
- 1 UNPACK COMPONENT PARTS AND INSTRUCTIONS
 - 2 EXAMINE COMPONENT PARTS, HARDWARE AND INSTRUCTIONS
 - 3 GET STEP LADDER FROM TRUCK AND RETURN
 - 4 WALK TO AND FROM TRUCK TO GET AND RETURN LADDER
 - 5 OBTAIN, SET UP AND LATER RETURN STEP LADDER
 - 6 CLIMB UP AND DOWN STEP LADDER
 - 7 REMOVE AND ASIDE ACOUSTICAL TILE
 - 8 INSPECT INSTALLATION SITE FROM LADDER
 - 9 MEASURE AREA FOR SUPPORT BEAM AND FLEXIBLE CONDUIT
 - 10 OBTAIN BEAM AND CONDUIT FROM TRUCK
 - 11 WALK TO AND FROM TRUCK TO GET BEAM AND CONDUIT
 - 12 CUT FLEXIBLE CONDUIT TO PROPER LENGTH WITH SPECIAL TOOL
 - 13 MEASURE , MARK AND CUT METAL BEAM TO LENGTH WITH HACKSAW
 - 14 CLIMB UP AND DOWN STEP LADDER
 - 15 POSITION BEAM TO APPROXIMATE LOCATION ACROSS CEILING SUPPORTS
 - 16 CLIMB UP AND DOWN STEP LADDER
 - 17 PUNCH OUT TWO KNOCKOUTS FROM METAL OUTLET BOX
 - 18 INSTALL OUTLET BOX TO BEAM WITH TWO SCREWS
 - 19 CLIMB UP AND DOWN STEP LADDER
 - 20 INSTALL CONNECTOR TO END OF FLEXIBLE CONDUIT
 - 21 POSITION CONDUIT TO OUTLET BOX
 - 22 INSTALL LOCK NUT TO CONDUIT
 - 23 ATTACH CONDUIT TO OUTLET BOX WITH CONNECTOR
 - 24 INSTALL CONNECTOR TO OPPOSITE END OF CONDUIT
 - 25 CHECK BOX POSITION IN CEILING
 - 26 POSITION BOX AND BEAM AS NEEDED FOR CORRECT ALIGNMENT WITH CEILING
 - 27 CLIMB UP AND DOWN STEP LADDER
 - 28 CUT 3" X 3" SECTION FROM ACOUSTICAL CEILING TILE WITH KNIFE FOR CLEARANCE
 - 29 POSITION TILE IN PLACE AT COMPONENT LOCATION
 - 30 CUT THREE WIRES IN FLEXIBLE CONDUIT TO LENGTH
 - 31 TAKE ADDITIONAL STEPS ON LADDER TO GAIN ACCESS TO EXISTING ELECTRICAL WIRING ABOVE CEILING
 - 32 CONNECT WIRES FROM END OF CONDUIT TO POWER SOURCE
 - 33 MOVE LADDER TO NEW LOCATION
 - 34 WALK WITH STEP LADDER TO NEW LOCATIONS AT EACH END OF BEAM
 - 35 CLIMB UP AND DOWN STEP LADDER AT EACH LOCATION
 - 36 REMOVE TWO CEILING TILES FOR CLEARANCE TO TIE BEAM
 - 37 INSTALL TWO CEILING TILES AFTER REMOVAL FOR CLEARANCE
 - 38 SECURE BEAM TO CEILING SUPPORTS WITH WIRE
 - 39 INSTALL TWO WIRE NUTS TO WIRES AT OUTLET BOX
 - 40 INSTALL NEW COMPONENT MOUNTING BRACKET TO OUTLET BOX
 - 41 CUT AND CONNECT TWO WIRES FROM OUTLET BOX TO NEW COMPONENT
 - 42 CONNECT GROUND WIRE FROM NEW COMPONENT TO BOX
 - 43 TEST OPERATION OF NEW COMPONENT SUCH AS ON/OFF SWITCH, VARIABLE SPEED SWITCH, ETC.
 - 44 PUT TOOLS AWAY AFTER JOB IS COMPLETED
 - 45 OBTAIN BROOM AND DUSTPAN AND ASIDE
 - 46 SWEEP AREA AS NEEDED
 - 47 PICK UP DEBRIS WITH DUSTPAN AND DISPOSE OF
 - 48 PICK UP AND DISPOSE OF LOOSE DEBRIS BY HAND

GT-612 = .73180 HRS PER UNIT

GT-613

ASSEMBLE AND INSTALL CEILING FAN IN SUSPENDED CEILING

NO WORK UNIT DESCRIPTION

- 1 INSTALL ELECTRICAL WIRING AND SUPPORT IN SUSPENDED CEILING - INCLUDES REMOVE AND INSTALL CEILING TILES, CUT TILE FOR ACCESS, UNPACK AND EXAMINE FAN PARTS, MEASURE AREA, CUT SUPPORT BEAM AND FLEXIBLE CONDUIT TO LENGTH, CONNECT ALL WIRING AND TEST UNIT AFTER INSTALLATION
- 2 CLIMB UP AND DOWN STEP LADDER
- 3 POSITION HANGER BRACKET TO OUTLET BOX FOR MOUNTING WITH TWO SCREW
- 4 INSTALL TWO SCREW TO HOLD HANGER BRACKET
- 5 UNPACK AND LAYOUT FAN HARDWARE
- 6 ASSEMBLE HEMI SPHERE AND HANGER PIPE TO FAN MOTOR
- 7 INSTALL SCREWS TO HOLD FAN ASSEMBLY
- 8 UNPACK AND LAYOUT FAN HARDWARE
- 9 POSITION FAN BLADES TO BLADE HOLDERS
FOUR BLADES PER FAN
- 10 ASSEMBLE FIBER WASHERS TO SCREW
FOUR BLADES PER FAN; THREE WASHERS PER BLADE
- 11 INSTALL SCREWS TO BLADE AND BLADE HOLDER
FOUR BLADES PER FAN; THREE SCREW PER BLADE
- 12 POSITION FIBER WASHER TO FAN MOTOR
FOUR BLADES PER FAN; ONE WASHER PER BLADE
- 13 POSITION BLADE TO FAN MOTOR
FOUR BLADES PER FAN
- 14 INSTALL SCREWS TO HOLD BLADES TO FAN
FOUR BLADES PER FAN; TWO SCREWS PER BLADE
- 15 POSITION CEILING CANOPY TO FAN
- 16 CLIMB UP AND DOWN STEP LADDER
- 17 HANG FAN UNIT FROM HANGER BRACKET
- 18 ATTACH EXTENSION TO PULL CHAIN
- 19 INSTALL CEILING CANOPY WITH TWO SCREWS

GT-613 = 1.15568 HRS PER FAN

GT-614

CUT ACCESS FOR WIRE THROUGH WOODEN PARTITION WITH HOLE SAW MOUNTED IN PORTABLE POWER OR ILL

NO WORK UNIT DESCRIPTION

- 1 OBTAIN DRILL MOTOR FROM FLOOR
- 2 GET CHUCK KEY TO LOOSEN AND TIGHTEN CHUCK
- 3 LOOSEN DRILL CHUCK WITH CHUCK KEY
- 4 LOOSEN CHUCK BY HAND
- 5 REMOVE DRILL AND INSTALL CORRECT DRILL IN CHUCK
- 6 HAND TIGHTEN CHUCK
- 7 TIGHTEN CHUCK WITH CHUCK KEY
- 8 MARK HOLE LOCATION
- 9 POSITION DRILL TO MARK
- 10 DRILL THROUGH WOODEN SURFACE WITH HAND DRILL
- 11 CLEAN HOLE BY RUNNING DRILL BACK AND FORTH
- 12 GET CHUCK KEY TO REMOVE DRILL
- 13 LOOSEN CHUCK WITH CHUCK KEY
- 14 LOOSEN CHUCK BY HAND TO REMOVE DRILL
- 15 REMOVE DRILL AND PLACE HOLE SAW IN CHUCK
- 16 HAND TIGHTEN DRILL CHUCK
- 17 TIGHTEN CHUCK WITH CHUCK KEY
- 18 POSITION HOLE SAW TO DRILLED HOLE
- 19 CUT HOLE THROUGH WITH HOLE SAW
- 20 ASIDE DRILL TO FLOOR
- 21 DEBURR HOLE WITH HALF ROUND FILE
- 22 EXAMINE BOTH SIDES OF HOLE

GT-614 = .05028 HRS PER HOLE

GT-615

INSTALL SMOKE DETECTOR IN CEILING (DOES NOT INCLUDE WIRING INSTALLATION OR LADDER TIME)

NO WORK UNIT DESCRIPTION

- 1 REMOVE COVER FROM NEW DETECTOR AND LATER REINSTALL
- 2 MEASURE AND MARK HOLE LOCATIONS ON CEILING, DRILL FIRST HOLE AND INSTALL ANCHOR
- 3 DRILL SECOND HOLE
- 4 INSTALL SECOND ANCHOR
- 5 POSITION SCREWS TO HOLES AT CEILING
- 6 INSTALL SCREWS TO CEILING
- 7 STRIP WIRES AT CEILING LOCATION
- 8 STRIP AND TWIST WIRES AND INSTALL TWO WIRE NUTS TO CONNECT DETECTOR TO WIRING
- 9 POSITION DETECTOR ON SCREW IN CEILING
- 10 TURN DETECTOR ON SCREWS TO ATTACH
- 11 TURN SCREWS TO TIGHTEN TO HOLD DETECTOR
- 12 POSITION COVER TO SMOKE DETECTOR
- 13 TEST DETECTOR WITH AEROSOL SMOKE CAN
- 14 WAIT FOR DETECTOR ALARM TO SOUND

GT-615 = .24750 HRS PER DETECTOR

GT-616

INSTALL RECESSED FLUORESCENT LIGHT (TROFFER)
FIXTURES IN SUSPENDED CEILING TWO FIXTURES PER
JOB

NO WORK UNIT DESCRIPTION

- == =====
- 1 UNPACK LIGHT FIXTURE AND HARDWARE
 - 2 GET STEP LADDER FROM TRUCK AND LATER RETURN
 - 3 WALK TO AND FROM TRUCK TO GET STEP LADDER
 - 4 OPEN STEP LADDER FOR USE AND LATER CLOSE AND ASIDE
 - 5 CLIMB UP AND DOWN STEP LADDER
 - 6 REMOVE CEILING TILES FOR ACCESS TO WORK SPACE
 - 7 REMOVE TWO KNOCKOUTS IN EACH LIGHT FIXTURE
 - 8 CARRY FIXTURE UP STEP LADDER AND PLACE IN CEILING
TWO MEN
 - 9 POSITION FIXTURE IN CEILING BRACES AND CROSS BEAMS
 - 10 TAKE ADDITIONAL STEPS TO ACCESS CEILING TO TIE
LIGHT SUPPORTS TO ORIGINAL CEILING
 - 11 TIE TWO SUPPORT WIRES TO CEILING AND TO EACH END
OF LIGHT FIXTURE TO INSURE LIGHT WILL NOT FALL I F
CEILING IS DAMAGED
 - 12 INSTALL FLUORESCENT BULBS IN FIXTURE
 - 13 MEASURE FIXTURE AREA TO DETERMINE LENGTH OF FLEX
CONDUIT TO BE INSTALLED
 - 14 CUT BOTH ENDS OF FLEXIBLE (BX) CONDUIT TO LENGTH
WITH HAND CRANK CUTTER
 - 15 SEPARATE HIRES AT EACH END OF CONDUIT BEFORE
INSTALLATION
 - 16 ATTACH FITTING TO EACH END OF CONDUIT
 - 17 CUT WIRES AS NEEDED TO ATTACH TO FIXTURE
 - 18 ATTACH CONNECTOR TO LIGHT FIXTURE FOR WIRING
ATTACHMENT
 - 19 CONNECT WIRING WITH FLEXIBLE CONDUIT TO LIGHT
FIXTURE AND TO POWER
 - 20 REPLACE CEILING TILES REMOVED FOR ACCESS
 - 21 TEST OPERATION OF LIGHT FIXTURE AFTER INSTALLATION

GT-616 = 1.32125 HRS PER 2 FIXTURE

GT-617

INSTALL AND LATER REMOVE TEMPORARY ELECTRICAL
SERVICE - UP TO 100 AMP - DURING MAINTENANCE
OPERATIONS

NO WORK UNIT DESCRIPTION

- == =====
- 1 WALK AROUND WORK AREA TO DETERMINE HOW TO RUN
TEMPORARY SERVICE
 - 2 LAYOUT, MEASURE AND CUT WIRE TO LENGTH FOR SERVICE
 - 3 WALK TO PANEL AND TO SERVICE LOCATION AS WIRE IS
UNCOILED
 - 4 CHECK PANEL WITH TEST LEADS AND VOLTMETER
 - 5 WALK TO MAIN BREAKER TO SECURE POWER AND RETURN
 - 6 TURN MAIN POWER OFF AND LATER ON AFTER
INSTALLATION OF SERVICE
 - 7 INITIAL LOOSEN AND FINAL TIGHTEN OF SCREW HOLDING
WIRES - FOUR WIRES TO PANEL AND FOUR TO SERVICE
 - 8 TURN SCREW WITH SCREWDRIVER TO LOOSEN OLD WIRES
AND TO TIGHTEN NEW WIRES
 - 9 STRIP WIRE ENDS TO INSTALL IN PANEL AND IN SERVICE
AREA
 - 10 POSITION WIRES TO TERMINALS
 - 11 ASIDE OLD WIRING TO ACCESS TERMINALS
 - 12 CHECK PHASING WITH METER AFTER POWER IS TURNED ON
 - 13 TURN MAIN POWER OFF AND ON TO CORRECT PHASING
 - 14 INITIAL LOOSEN AND TIGHTEN OF SCREW TO CHANGE
PHASING
 - 15 TURN SCREW TO LOOSEN AND TO TIGHTEN ON HIRES
 - 16 CHECK PHASING WITH METER - 50% OF JOBS TO CORRECT
PHASING
 - 17 TURN ON MAIN SYSTEM
 - 18 INITIAL TURNS WITH SCREWDRIVER TO REMOVE TEMPORARY
WIRING
 - 19 TURN SCREWS TO RELEASE WIRES
 - 20 ASIDE TEMPORARY WIRING

GT-617 = .28785 HRS PER SERVICE

GT-618

INSTALL AND LATER REMOVE TEMPORARY ELECTRICAL SERVICE - OVER 100 AMP - DURING MAINTENANCE OPERATIONS

NO WORK UNIT DESCRIPTION

- == =====
- 1 WALK AROUND WORK AREA TO DETERMINE HOW TO RUN TEMPORARY SERVICE
 - 2 UNLOAD COIL OF TEMPORARY CABLE FROM TRUCK AND LOAD ONTO TRUCK AFTER CUTTING OFF PROPER LENGTH
 - 3 UNCOIL WIRE AND MEASURE OFF LENGTH NEEDED FOR TEMPORARY SERVICE
 - 4 CUT FOUR STRANDS OF CABLE TO LENGTH
 - 5 WALK TO PANEL AND TO SERVICE LOCATION AS WIRE IS BEING UNCOILED
 - 6 TWIST FOUR WIRES TOGETHER NEAR END FOR EASIER HANDLING - BOTH ENDS
 - 7 TAPE FOUR WIRES TOGETHER FOR EASE OF HANDLING - BOTH ENDS
 - 8 CHECK PANEL WITH TEST LEADS AND VOLTMETER
 - 9 WALK TO MAIN BREAKER TO SECURE POWER AND RETURN
 - 10 TURN MAIN POWER OFF AND LATER ON AGAIN AFTER INSTALLATION OF SERVICE
 - 11 INITIAL LOOSEN AND TIGHTEN OF ALLEN SCREWS SECURING WIRES - FOUR WIRES TO PANEL AND FOUR TO SERVICE
 - 12 TURN SCREW WITH ALLEN WRENCH UNTIL WIRE IS LOOSE - FOUR SCREWS PER PANEL - AND TIGHTEN SCREWS ON NEW WIRES
 - 13 STRIP WIRE ENDS TO INSTALL IN PANEL AND IN SERVICE AREA
 - 14 BEND WIRES 90 DEGREES TO FIT IN TERMINALS
 - 15 POSITION WIRES TO TERMINALS
 - 16 PUSH OLD WIRING ASIDE AFTER REMOVAL
 - 17 TIE OFF OLD WIRING - BOTH ENDS
 - 18 CHECK PHASING WITH METER AFTER POWER IS TURNED ON
 - 19 TURN MAIN POWER OFF AND ON TO CORRECT PHASING
 - 20 INITIAL TURN WITH ALLEN WRENCH TO TURN TWO SCREWS TO WITCH WIRES 1 F PHASING IS OFF - 50% OF JOBS
 - 21 TURN SCREWS TO REMOVE AND REPLACE WIRES TO CORRECT PHASING - 50% OF JOBS
 - 22 CHECK PHASING WITH METER - 50% OF JOBS TO CORRECT PHASING
 - 23 TURN ON MAIN SYSTEM
 - 24 INITIAL TURNS WITH ALLEN WRENCH TO REMOVE TEMPORARY WIRING - 8 SCREW
 - 25 ADDITIONAL TURNS WITH ALLEN WRENCH TO REMOVE TEMPORARY WIRING
 - 26 ASIDE TEMPORARY WIRING AFTER USE
 - 27 TIE TEMPORARY WIRING IN COIL AFTER REMOVAL

GT-618 = .50511 HRS PER SERVICE

GT-619

INSTALL SMALL EXHAUST FAN, UP TO 1/10 HP, IN KITCHEN OR RESTROOM WALL. INCLUDES CONDUIT, WITCH AND RECEPTACLE . STEPLADDER USED.

NO WORK UNIT DESCRIPTION

- == =====
- 1 INSTALL RIGID CONDUIT AND WIRING FOR EXHAUST FAN ON CONCRETE WALL
 - 2 INSTALL RECEPTACLE FOR EXHAUST FAN
 - 3 INSTALL SINGLE-POLE WITCH FOR EXHAUST FAN
 - 4 GET AND SET UP STEPLADDER AND ASIDE AFTER USE
 - 5 CLIMB UP AND DOWN STEPLADDER DURING INSTALLATION OF FAN - AVERAGE OF SIX TIMES UP AND DOWN
 - 6 MEASURE AND MARK WALL FOR FAN OPENING
 - 7 GET DRILL MOTOR FROM FLOOR
 - 8 DRILL HOLE THROUGH WALL FOR FAN CUT OUT
 - 9 ASIDE DRILL MOTOR
 - 10 GET SABRE SAW FROM FLOOR
 - 11 SAW OUT OPENING FOR FAN IN WOODEN WALL
 - 12 SAW OUT CORNERS OF FAN OPENING TO FIT
 - 13 ASIDE SABRE SAW TO FLOOR
 - 14 LAYOUT AND MARK FAN MOUNTING HOLES
 - 15 GET DRILL MOTOR FROM FLOOR
 - 16 GET CHUCK KEY TO LOOSEN AND TIGHTEN CHUCK
 - 17 HAND TIGHTEN CHUCK AND LATER LOOSEN
 - 18 LOOSEN DRILL CHUCK WITH CHUCK KEY AND LATER TIGHTEN
 - 19 REMOVE DRILL FROM CHUCK AND REPLACE WITH CORRECT SIZE DRILL
 - 20 POSITION OR ILL TO LAYOUT MARK
 - 21 DRILL MOUNTING HOLES IN WALL
 - 22 INSTALL EXHAUST FAN IN OPENING
 - 23 INSTALL SCREWS TO HOLD EXHAUST FAN TO WALL
 - 24 CAULK AROUND FAN AFTER INSTALLATION
 - 25 PLUG IN FAN TO RECEPTACLE
 - 26 TEST OPERATION OF FAN AFTER INSTALLATION

GT-619 = 1.01972 HRS PER FAN

GT-620

OPEN HOLE (KNOCKOUT) IN ELECTRICAL COMPONENT BOX WITH HYDRAULIC PUNCH

NO WORK UNIT DESCRIPTION

- == =====
- 1 OPEN KNOCKOUT HOLE IN METAL BOX WITH HYDRAULIC PUNCH

GT-620 = .07835 HRS PER HOLE

GT-621

DRILL FOR AND INSTALL KENDORF RACK FOR OVERHEAD CABLE OR WIREWAY RUN - PER RACK

NO WORK UNIT DESCRIPTION

- == =====
- 1 POSITION STAND TO HANGER LOCATION
- 2 PLACE DRILL AND DROP CORD ON STAND
- 3 CONNECT MOTOR AND DROP CORD TO POWER SOURCE
- 4 GET AND PUT ON SAFETY GLASSES
- 5 CLIMB WORK STAND
- 6 RAISE WORK STAND TO WORKING HEIGHT
- 7 SIGHT ALONG CONDUIT RUN TO DETERMINE LOCATION FOR RACK
- 8 LAYOUT TWO HOLES FOR RACK USING BASE AS GUIDE
- 9 GET DRILL MOTOR AND PREPARE TO USE
- 10 DRILL TWO HOLES IN CEILING AT LAYOUT MARKS
- 11 DRIVE IN TWO ANCHORS WITH HAMMER
- 12 ASSEMBLE ROD WITH BASE
- 13 PLACE BASE PLATE IN POSITION
- 14 INSTALL TWO BOLTS IN CEILING ANCHORS HOLDING RACK BASE
- 15 HANG CONDUIT FROM RACK (TWO MEN)
- 16 INSTALL HANGER TO HOLD CONDUIT
- 17 TIGHTEN HANGER BOLTS
- 18 CLIMB DOWN STAND

GT-621 = .18349 HRS PER RACK

GT-622

TEST MANHOLE FOR ACCUMULATION OF TOXIC GASES WITH AN ATMOSPHERIC TEST INSTRUMENT

NO WORK UNIT DESCRIPTION

- == =====
- 1 SET UP SAFETY BARRIER AROUND MANHOLE AND REMOVE AFTER WORK
- 2 REMOVE AND LATER INSTALL MANHOLE COVER
- 3 WALK TO VEHICLE TOOL COMPARTMENT AND RETURN
- 4 OPEN AND CLOSE TOOL COMPARTMENT
- 5 GET TEST INSTRUMENT FROM TOOL COMPARTMENT
- 6 WALK TO MANHOLE WITH TEST INSTRUMENT
- 7 PREPARE TO USE TEST INSTRUMENT
- 8 LOWER AIR SAMPLING DEVICE INTO MANHOLE
- 9 OBTAIN AIR SAMPLE FROM MANHOLE
- 10 WITHDRAW AIR SAMPLING DEVICE FROM MANHOLE
- 11 TAKE READING FROM TEST INSTRUMENT INDICATOR
- 12 FILL OUT SAFETY CHECK OFF SHEET
- 13 FILL OUT SAFETY REPORT IF NEGATIVE READING
- 14 PREPARE TEST INSTRUMENT FOR STORAGE
- 15 WALK TO SERVICE VEHICLE WITH TEST INSTRUMENT
- 16 OPEN AND CLOSE TOOL COMPARTMENT
- 17 PLACE TEST INSTRUMENT IN TOOL COMPARTMENT

GT-622 = .45186 HRS PER JOB

GT-623

TEST MANHOLE FOR ACCUMULATION OF TOXIC GASES WITH COLORIMETRIC INDICATING GEL TUBE

NO WORK UNIT DESCRIPTION

- == =====
- 1 SET UP SAFETY BARRIER AROUND MANHOLE AND REMOVE AFTER WORK
- 2 REMOVE AND LATER INSTALL MANHOLE COVER
- 3 WALK TO VEHICLE TOOL COMPARTMENT AND RETURN
- 4 OPEN AND CLOSE TOOL COMPARTMENT
- 5 GET CALORIMETRIC INDICATING GEL TUBE FROM TOOL COMPARTMENT
- 6 WALK TO MANHOLE WITH GEL TUBE AND RETURN
- 7 BREAK SEAL ON GEL TUBE
- 8 LOWER GEL TUBE INTO MANHOLE
- 9 ALLOW EXPOSURE OF GEL TUBE TO MANHOLE ATMOSPHERE
- 10 WITHDRAW GEL TUBE FROM MANHOLE
- 11 COMPARE COLORATION OF GEL IN TUBE WITH COLOR CHART
- 12 DISPOSE OF GEL TUBE

GT-623 = .47602 HRS PER JOB

GT-624

INJECT CARBON DIOXIDE INTO MANHOLE TO REDUCE POSSIBILITY OF EXPLOSION

NO WORK UNIT DESCRIPTION

- == =====
- 1 SET UP SAFETY BARRIER AROUND MANHOLE AND REMOVE AFTER WORK
- 2 REMOVE MANHOLE COVER AND LATER INSTALL
- 3 WALK TO ADJACENT MANHOLES AND RETURN
- 4 CHECK FOR PRESENCE OF PERSONNEL IN ADJACENT MANHOLES
- 5 NOTIFY PERSONNEL IN ADJACENT MANHOLE OF INTENT TO INJECT CARBON DIOXIDE
- 6 UNLOAD CARBON DIOXIDE TANK FROM SERVICE VEHICLE
- 7 HAND CARRY CARBON DIOXIDE TANK TO MANHOLE
- 8 PLACE CARBON DIOXIDE TANK HOSE NOZZLE IN MANHOLE OPENING
- 9 INJECT CARBON DIOXIDE IN MANHOLE
- 10 REMOVE NOZZLE FROM MANHOLE
- 11 HAND CARRY CARBON DIOXIDE TANK TO SERVICE VEHICLE
- 12 LOAD CARBON DIOXIDE TANK ON SERVICE VEHICLE

GT-624 = .53434 HRS PER JOB

GT-625

VENTILATE MANHOLE WITH PORTABLE GASOLINE DRIVEN BLOWER - RUN TIME NOT INCLUDED

NO WORK UNIT DESCRIPTION

- 1 UNLOAD GASOLINE DRIVEN BLOWER FROM SERVICE VEHICLE
- 2 UNLOAD FLEXIBLE DUCT (AVG. 3 SECTIONS) FROM SERVICE VEHICLE
- 3 CHECK FUEL AND LUBE OIL IN BLOWER ENGINE
- 4 HAND CARRY PORTABLE BLOWER TO MANHOLE AND RETURN
- 5 HAND CARRY FLEXIBLE DUCTS TO MANHOLE AND RETURN
- 6 CONNECT DUCT SECTIONS WITH EACH OTHER AND TO BLOWER
- 7 INSERT DUCT END INTO MANHOLE
- 8 START GASOLINE ENGINE ON BLOWER
- 9 STOP BLOWER ENGINE
- 10 REMOVE FLEXIBLE DUCT END FROM MANHOLE
- 11 DISCONNECT DUCT SECTIONS AT BLOWER AND JOINTS
- 12 LOAD BLOWER ON SERVICE VEHICLE
- 13 LOAD DUCT SECTIONS ON SERVICE VEHICLE

GT-625 = .23588 HRS PER JOB

GT-626

VENTILATE MANHOLE WITH PORTABLE ELECTRIC DRIVEN BLOWER - RUN TIME NOT INCLUDED

NO WORK UNIT DESCRIPTION

- 1 UNLOAD ELECTRIC DRIVEN BLOWER FROM SERVICE VEHICLE
- 2 UNLOAD FLEXIBLE DUCT (AVG. 3 SECTIONS) FROM SERVICE VEHICLE
- 3 REMOVE PORTABLE ELECTRIC CABLE FROM SERVICE VEHICLE
- 4 HAND CARRY PORTABLE BLOWER TO MANHOLE AND RETURN
- 5 HAND CARRY FLEXIBLE DUCTS AND PORTABLE ELECTRIC CABLE TO MANHOLE AND RETURN
- 6 CONNECT DUCT SECTIONS WITH EACH OTHER AND TO BLOWER
- 7 INSERT FLEXIBLE DUCT END INTO MANHOLE
- 8 UNCOIL AND LAY OUT PORTABLE ELECTRIC CABLE AND COIL UP AFTER USE
- 9 CONNECT PORTABLE ELECTRIC CABLE TO POWER SOURCE AND TO BLOWER AND DISCONNECT
- 10 TURN BLOWER MOTOR ON AND LATER OFF
- 11 REMOVE PORTABLE DUCT END FROM MANHOLE
- 12 DISCONNECT DUCT SECTIONS AT BLOWER AND JOINTS
- 13 PLACE PORTABLE ELECTRIC CABLE ON SERVICE VEHICLE
- 14 LOAD BLOWER ON SERVICE VEHICLE
- 15 LOAD DUCT SECTIONS ON SERVICE VEHICLE

GT-626 = .18989 HRS PER JOB

GT-627

PUMP WATER FROM MANHOLE WITH PORTABLE GASOLINE DRIVEN PUMP - RUN TIME NOT INCLUDED

NO WORK UNIT DESCRIPTION

- 1 UNLOAD PORTABLE GASOLINE DRIVEN PUMP FROM SERVICE VEHICLE
- 2 UNLOAD SUCTION AND DISCHARGE HOSES FROM SERVICE VEHICLE
- 3 CHECK FUEL AND LUBE OIL IN PUMP ENGINE
- 4 HAND CARRY PORTABLE PUMP TO MANHOLE AND RETURN
- 5 HAND CARRY PUMP SUCTION AND DISCHARGE HOSES TO MANHOLE AND RETURN
- 6 LAY OUT SUCTION AND DISCHARGE HOSES FOR PUMP OPERATION
- 7 CONNECT HOSES TO EACH OTHER AND TO PUMP
- 8 RUN SUCTION HOSE END THROUGH MANHOLE ACCESS AND PLACE IN POSITION IN WATER
- 9 CLIMB INTO AND OUT OF MANHOLE ON FIXED LADDER
- 10 CLIMB AND DESCEND MANHOLE LADDER - EACH ADDITIONAL RUNG
- 11 START GASOLINE ENGINE ON PUMP
- 12 STOP PUMP ENGINE
- 13 REMOVE SUCTION HOSE END FROM MANHOLE
- 14 DISCONNECT HOSES FROM PUMP AND FROM EACH OTHER
- 15 COIL SUCTION AND DISCHARGE HOSES
- 16 LOAD PORTABLE PUMP ON SERVICE VEHICLE
- 17 LOAD SUCTION AND DISCHARGE HOSES ON SERVICE VEHICLE

GT -627 = .22376 HRS PER JOB

GT-628

PUMP WATER FROM MANHOLE WITH PORTABLE ELECTRIC DRIVEN PUMP - RUN TIME NOT INCLUDED

- NO WORK UNIT DESCRIPTION
 == =====
- 1 UNLOAD PORTABLE ELECTRIC PUMP FROM SERVICE VEHICLE
 - 2 UNLOAD PUMP SUCTION AND DISCHARGE HOSES FROM SERVICE VEHICLE
 - 3 REMOVE PORTABLE ELECTRIC CABLE FROM SERVICE VEHICLE
 - 4 HAND CARRY PORTABLE PUMP TO MANHOLE AND RETURN
 - 5 HAND CARRY HOSES AND ELECTRIC CABLE TO MANHOLE AND RETURN
 - 6 LAY OUT SUCTION AND DISCHARGE HOSES FOR PUMP OPERATION
 - 7 CONNECT HOSES TO EACH OTHER AND TO PUMP
 - 8 RUN SUCTION HOSE END THROUGH MANHOLE ACCESS AND PLACE IN POSITION IN WATER
 - 9 CLIMB INTO AND OUT OF MANHOLE ON FIXED LADDER
 - 10 ASCEND AND DESCEND MANHOLE LADDER - EACH ADDITIONAL RUNG
 - 11 UNCOIL AND LAY OUT PORTABLE ELECTRIC CABLE
 - 12 CONNECT PORTABLE ELECTRIC CABLE TO POWER SOURCE
 - 13 WALK TO ELECTRIC PUMP MOTOR AND RETURN
 - 14 TURN ELECTRIC MOTOR ON AND LATER OFF
 - 15 DISCONNECT PORTABLE CABLE AT POWER SERVICE AND AT PUMP
 - 16 COIL PORTABLE ELECTRIC CABLE
 - 17 REMOVE SUCTION HOSE FROM MANHOLE
 - 18 DISCONNECT HOSES FROM PUMP AND EACH OTHER
 - 19 COIL SUCTION AND DISCHARGE HOSES
 - 20 PLACE ELECTRIC CABLE ON SERVICE VEHICLE
 - 21 LOAD PORTABLE ELECTRIC PUMP ON SERVICE VEHICLE
 - 22 LOAD SUCTION AND DISCHARGE HOSES ON SERVICE VEHICLE

GT-628 = .24643 HRS PER JOB

GT-629

PUMP WATER FROM MANHOLE WITH PERMANENTLY INSTALLED ELECTRIC DRIVEN PUMP - RUN TIME NOT INCLUDED

- NO WORK UNIT DESCRIPTION
 == =====
- 1 CLIMB INTO AND OUT OF MANHOLE ON FIXED LADDER
 - 2 CLIMB UP AND DOWN MANHOLE LADDER - EACH ADDITIONAL RUNG
 - 3 WALK TO AND FROM SUMP PUMP START SWITCH
 - 4 TURN SUMP PUMP SWITCH ON AND LATER OFF
 - 5 INSPECT AND LUBRICATE SUMP PUMP MOTOR
 - 6 INSPECT PUMP MOTOR BEARING FOR NOISE OR VIBRATION
 - 7 VISUALLY INSPECT PUMP AND PIPING FOR LEAKS
 - 8 TIGHTEN PUMP AND PIPE FITTINGS AS NEEDED

GT-629 = .13263 HRS PER JOB

GT-630

REMOVE OUTLET AND INSTALL BOX EXTENSION AND PLASTER RING TO EXISTING BOX TO BRING OUTLET OUT LEVEL WITH NEW WALL

- NO WORK UNIT DESCRIPTION
 == =====
- 1 REMOVE EXISTING OUTLET OR RECEPTACLE
 - 2 POSITION BOX EXTENSION TO HALL
 - 3 ALIGN SCREW HOLES
 - 4 POSITION SCREW TO HOLES
 - 5 INSTALL TWO SCREWS TO MOUNT BOX EXTENSION
 - 6 INSTALL PLASTER RING
 - 7 CUT AND CONNECT WIRES TO EXTENDED OUTLET
 - 8 POSITION OUTLET OVER EXTENSION AND RING
 - 9 ALIGN HOLES
 - 10 POSITION SCREWS TO HOLES
 - 11 INSTALL AND TIGHTEN SCREWS JOINING OUTLET AND EXTENSION

GT -630 = .15628 HRS PER OUTLET

GT-631

REPLACE SINGLE-PHASE, 37 1/2 TO 50 KVA TRANSFORMER MOUNTED ON POLE FOR POLE ACCESS USE GT-420 FOR POLE CLIMBING OR GT-421 FOR THE BUCKET TRUCK

- NO WORK UNIT DESCRIPTION
 == =====
- 1 OPEN CUT-OUT SWITCH WITH STICK AND DISCONNECT WIRING TO TRANSFORMER
 - 2 REMOVE BOLT AND NUT HOLDING TRANSFORMER
 - 3 REMOVE TRANSFORMER FROM POLE USING TRUCK HOIST
 - 4 UNLOAD NEW TRANSFORMER AT BASE OF POLE AND HOIST TO POSITION ON POLE
 - 5 INSTALL WIRING AND CONNECT TO NEW TRANSFORMER

GT-631 = 7.07009 HRS PER JOB

GT - 632

INSTALL NEW SINGLE-PHASE, 37 1/2 TO 50 KVA TRANSFORMER TO POLE INCLUDING DRILLING HOLES AND MOUNTING HARDWARE FOR POLE ACCESS USE GT-420 FOR POLE CLIMBING OR GT-421 FOR THE BUCKET TRUCK

- NO WORK UNIT DESCRIPTION
 == =====
- 1 DRILL TWO HOLES FOR MOUNTING BOLTS
 - 2 HAMMER TWO MOUNTING BOLTS INTO HOLES
 - 3 UNLOAD NEW TRANSFORMER AT POLE AND HOIST TO POSITION WITH TRUCK HOIST
 - 4 INSTALL NUTS TO MOUNTING BOLTS AND SECURE
 - 5 CUT CONDUCTORS TO LENGTH FOR NEW INSTALLATION
 - 6 SPLICE NEW WIRES TO EXISTING CONDUCTORS
 - 7 CONNECT TRANSFORMER TO POWER AND TURN ON

GT-632 = 5.38930 HRS PER JOB

GT-633

INSTALL ONE STRAIGHT SECTION OF PVC CONDUIT (EB DUCT) UP TO SIX INCH (6") DIAMETER IN TRENCH

NO WORK UNIT DESCRIPTION

- 1 ASSEMBLE AND PLACE SUPPORTS FOR PVC
- 2 POSITION PVC SECTION IN TRENCH - TWO MEN
- 3 CLEAN, CEMENT AND JOIN NEW SECTION
- 4 DRIVE REBAR OR CONDULET INTO GROUND AND TIE DOWN OVER PVC TO HOLD IN PLACE WHEN POURING CONCRETE
- 5 VISUALLY CHECK ALIGNMENT OF PVC SECTION

GT-633 = .14074 HRS PER SECTION

GT-634

INSTALL A CURVED SECTION OF PVC CONDUIT (EB DUCT) UP TO SIX INCH (6") DIAMETER IN TRENCH - INCLUDES HEATING CONDUIT IN COOKER AND BEND TO PATTERN

NO WORK UNIT DESCRIPTION

- 1 HEAT PVC IN COOKER AND BEND TO PATTERN
- 2 SAW CURVED SECTION TO LENGTH AS NEEDED
- 3 PLACE SUPPORTS UNDER AND BETWEEN SECTIONS
- 4 PLACE CURVED SECTION IN TRENCH
- 5 APPLY ADHESIVE AND JOIN SECTIONS
- 6 DRIVE REBAR OR CONDULET INTO GROUND AND TIE OFF OVER PVC TO PREVENT FLOATING WHEN POURING CONCRETE
- 7 VISUALLY CHECK ALIGNMENT OF CURVED SECTION

GT-634 = .28180 HRS PER SECTION

GT-635

CUT UP TO SIX INCH (6") DIA. PVC CONDUIT (EB DUCT) TO LENGTH FOR INSTALLATION - INCLUDES MEASURE, MARK AND CUT TO SIZE WITH POWER SAW

NO WORK UNIT DESCRIPTION

- 1 MEASURE, MARK AND CUT PVC SECTION TO LENGTH WITH POWER SAW
- 2 POSITION SUPPORTS UNDER AND BETWEEN SECTIONS
- 3 PLACE SHORTENED SECTION IN TRENCH
- 4 APPLY ADHESIVE AND JOIN SECTIONS
- 5 DRIVE REBAR OR CONDULET INTO GROUND AND TIE OFF OVER PVC TO PREVENT FLOATING WHEN POURING CONCRETE
- 6 VISUALLY INSPECT ALIGNMENT OF PVC SECTION

GT-635 = .16252 HRS PER SECTION

GT -636

ADJUST VASI (VISUAL APPROACH SLOPE INDICATOR) LIGHTS ON AIRFIELD - DOES NOT INCLUDE CALIBRATION OF AIMING BAR

NO WORK UNIT DESCRIPTION

- 1 REMOVE/REINSTALL RETAINING PIN FROM HINGE ROD
- 2 GATHER TOOLS AND RETURN TO TRUCK
- 3 OPEN/CLOSE UPPER HOUSING OF VASI UNIT AND INSERT/REMOVE HINGE ROD
- 4 INSERT/REMOVE AIMING BAR - INCLUDES INITIAL READING OF AIMING BAR AFTER INSERTING INTO VASI UNIT
- 5 PLACE/REMOVE LEVEL ON UPPER FACE OF APERTURE
- 6 APPLY 01 L TO ELEVATION SCREWS, NUTS, LOCK NUTS AND/OR FRANGIBLE COUPLINGS
- 7 ADJUST VASI UNIT BY LOWERING/RAISING BOTTOM NUTS ON ADJUSTING SCREW AND/OR FRANGIBLE COUPLINGS & READING INDICATORS ON LEVEL AND AIMING BAR
- 8 UNLOAD TOOLS FROM TRUCK AND WALK VASI UNITS

GT-636 = .06727 HRS PER UNIT
+ .13870 HRS PER LOCATION

GT-637

CALIBRATE VASI (VISUAL APPROACH SLOPE INDICATOR) AIMING BAR TO BE USED IN ALIGNMENT OF VASI LIGHTS ON AIRFIELD

NO WORK UNIT DESCRIPTION

- 1 OBTAIN/RETURN AIMING BAR KIT FROM STORAGE
- 2 REMOVE/REPLACE CALIBRATION BAR FROM CASE
- 3 POSITION CALIBRATION BAR ON RIGID SURFACE
- 4 GET/ASIDE LEVEL TO LEVEL CALIBRATION BAR
- 5 CHECK ALIGNMENT OF CALIBRATION BAR WITH LEVEL AND ALIGN AS NECESSARY (3 POSITIONS ARE CHECKED TWICE)
- 6 ADJUST LEVELING SCREWS ON CALIBRATION BAR FOR ALIGNMENT WITH LEVEL (6 POSITIONS ARE CHECKED | 4 SCREWS = 24)
- 7 OBTAIN/RETURN CALIBRATION AND AIMING BAR FROM CASE
- 8 REMOVE/REPLACE AIMING BAR FROM CASE
- 9 POSITION AIMING BAR ON CALIBRATION BAR
- 10 MOVE ANGLE BLOCK TO 0, 3, AND 6 DEGREE POSITIONS ON AIMING BAR
- 11 READ 0, 3, AND 6 DEGREE SCALE POSITIONS ON AIMING BAR
- 12 GET/ASIDE ADJUSTABLE WRENCH
- 13 LOOSEN/TIGHTEN LOCK SCREW OF AIMING BAR LEVEL
- 14 ADJUST AIMING BAR LEVEL BY HAND

GT-637 = .12088 HRS PER JOB

GT-638

INSTALL CONDUIT OR RACEWAY ON OVERHEAD SUSPENDED RACKS (KENDORF) . WORK STAND USED. PER SECTION

NO WORK UNIT DESCRIPTION

- 1 POSITION WORKSTAND
- 2 CLIMB STAND
- 3 RAISE STAND TO WORKING HEIGHT
- 4 POSITION SECTION OF CONDUIT AND INSERT INTO PREVIOUSLY INSTALLED SECTION, CONNECTOR OR BOX
- 5 INSTALL CONNECTOR TO CONDUIT
- 6 CHECK ALIGNMENT OF CONDUIT SECTION

GT-638 = .20822 HRS PER SECTION

GT-639

INSTALL PHASE PROTECTION ON ELECTRIC MOTOR

NO WORK UNIT DESCRIPTION

- 1 UNPACK PHASE PROTECTION UNIT
- 2 TURN MAIN POWER OFF AND LATER ON
- 3 LAYOUT LOCATION FOR UNIT ON WALL, ETC.
- 4 MEASURE AND MARK HOLE LOCATIONS FOR PHASE PROTECTION BOX
- 5 DRILL HOLES FOR MOUNTING BOX
- 6 INSTALL ANCHORS IN CONCRETE WALL FOR MOUNTING SCREWS
- 7 OBTAIN AND ASIDE NEW BOX AS NEEDED
- 8 CUT HOLE IN NEW BOX FOR CONDUIT
- 9 INSTALL NEW BOX ON WALL, ETC WITH FOUR SCREWS
- 10 INSTALL PHASE PROTECTION UNIT IN BOX
- 11 REMOVE KNOCKOUT IN MOTOR CONTROLLER BOX
- 12 CONNECT CONDUIT LENGTH FROM NEW BOX TO MOTOR CONTROLLER BOX
- 13 CONNECT WIRING TO PHASE PROTECTION AND TO MOTOR CONTROLLER
- 14 INSTALL CLAMPS TO CONDUIT LENGTH
- 15 INSTALL NEW COVER ON BOX
- 16 TEST CIRCUITS AND OPERATION OF PHASE PROTECTION

GT-639 = .65853 HRS PER JOB

GT-640

OPEN HOLE (KNOCKOUT) IN ELECTRICAL COMPONENT BOX WITH PUNCH AND PULLER TURNED BY WRENCH

NO WORK UNIT DESCRIPTION

- 1 OPEN HOLE (KNOCKOUT) IN ELECTRICAL COMPONENT BOX WITH PUNCH AND PULLER USING WRENCH

GT-640 = .14450 HRS PER HOLE

GT-641

INSTALL DIRECT BURIAL CABLE UP TO 1/0 SIZE IN TRENCH - TRENCHING AND BACK FILL TIME NOT INCLUDED

NO WORK UNIT DESCRIPTION

- 1 SET UP REELS TO FEED CABLE
- 2 PULL OFF ADDITIONAL TEN FEET OF CABLE FROM REEL(S)
- 3 TAPE ADDITIONAL WRAPPING TO JOIN CABLES
- 4 PULL CABLE(S) FROM REEL(S) TO LENGTH OF TRENCH PLUS FOOTAGE FOR CONNECTIONS
- 5 WALK WHILE PULLING CABLE FROM REEL
- 6 DROP CABLE(S) INTO TRENCH - APPROXIMATELY FIVE FEET OF CABLE AT ONE TIME
- 7 CUT CABLE(S) AT REEL END
- 8 TAPE CABLE(S) TO IDENTIFY EACH AFTER CUTTING
- 9 MAKE CONNECTIONS AT EACH END OF CABLE RUN

GT-641 = .05934 HRS PER CABLE
 + .03379 HRS PER JOB
 + .00066 HRS PER FOOT/CABLE

GT-642

INSTALL UP TO 1/0 CABLE THROUGH CONDUIT IN TRENCH - TRENCHING AND BACK FILL TIME NOT INCLUDED

NO WORK UNIT DESCRIPTION

- 1 SET UP REEL(S) TO FEED CABLE FOR RUN
- 2 PULL ADDITIONAL TEN FEET OF CABLE FROM REEL(S)
- 3 TAPE ADDITIONAL WRAPPING TO JOIN CABLE(S)
- 4 PULL CABLE(S) FROM REEL(S) TO LENGTH OF TRENCH PLUS FOOTAGE FOR HOOK UP
- 5 WALK WHILE PULLING CABLE TO LENGTH OF TRENCH AND RETURN
- 6 GET AND PLACE CONDUIT ALONG TRENCH
- 7 START THREADS TO JOIN TWO SECTIONS OF CONDUIT
- 8 SCREW TWO CONDUIT SECTIONS TOGETHER
- 9 DROP CONDUIT INTO TRENCH - PER SECTION
- 10 FEED CABLE(S) THROUGH CONDUIT SECTION
- 11 CUT CABLE(S) AT REEL END
- 12 TAPE CABLE(S) TO IDENTIFY EACH AFTER CUTTING
- 13 MAKE CABLE CONNECTIONS AT EACH END OF RUN

GT-642 = .05934 HRS PER CABLE
 + .03379 HRS PER JOB
 + .04473 HRS PER SECTION

GT-643

INSTALL UP TO 1 INCH DIAMETER FLEXIBLE ELECTRICAL NON-METALLIC TUBING (ENT CONDUIT) TO TWO SURFACE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO BOX

NO WORK UNIT DESCRIPTION

- 1 INSTALL CONNECTOR TO BOX
- 2 CUT CONDUIT TO LENGTH
- 3 ASSEMBLE CONDUIT TO CONNECTOR WITH ADHESIVE
- 4 INSTALL STRAP TO SUPPORT CONDUIT

GT-643 = .02981 HRS PER SECTION

GT-644

REPLACE EXTERIOR LIGHT FIXTURE MOUNTED ON VERTICAL WALL . LADDER TIME NOT INCLUDED.

NO WORK UNIT DESCRIPTION

- 1 CHECK OPERATION OF LIGHT SWITCH
- 2 REMOVE OLD LIGHT FIXTURE
- 3 INSTALL NEW LIGHT FIXTURE REPLACING OLD FIXTURE
- 4 WALK AROUND JOB SITE AS NEEDED

GT-644 = .11508 HRS PER JOB

GT-645

INSTALL BATTERY POWERED SMOKE DETECTOR TO PLASTER CEILING. LADDER TIME NOT INCLUDED .

NO WORK UNIT DESCRIPTION

- 1 UNPACK NEW DETECTOR
- 2 INSTALL NEW 9V BATTERY
- 3 TEST BATTERY IN DETECTOR
- 4 PREPARE TO USE PORTABLE DRILL MOTOR
- 5 DRILL MOUNTING HOLES IN CEILING
- 6 INSTALL ANCHORS IN DRILLED HOLES
- 7 POSITION SCREWS TO ANCHORS FOR MOUNTING
- 8 INSTALL MOUNTING SCREW
- 9 POSITION DETECTOR TO MOUNTING SCREW
- 10 TWIST DETECTOR ON TO SCREW
- 11 TIGHTEN SCREWS TO DETECTOR
- 12 SPRAY SMOKE FROM AEROSOL CAN TO TEST DETECTOR
- 13 WAIT FOR ALARM TO SOUND
- 14 WALK AROUND JOB SITE AS NEEDED

GT-645 = .12736 HRS PER JOB

GT -646

INSTALL UP TO 1" DIAMETER FLEXIBLE ELECTRICAL NON-METALLIC TUBING (ENT CONDUIT) TO CONCRETE SURFACE PER UP TO TEN FOOT SECTION INCLUDING CONNECTION TO BOX

NO WORK UNIT DESCRIPTION

- 1 INSTALL CONNECTOR TO BOX
- 2 CUT CONDUIT TO LENGTH
- 3 ASSEMBLE CONDUIT TO CONNECTOR WITH ADHESIVE
- 4 PREPARE TO USE DRILL AND ASIDE AFTER USE
- 5 DRILL TWO HOLES IN CONCRETE
- 6 INSTALL TWO ANCHORS IN HOLES
- 7 INSTALL STRAP TO HOLD CONDUIT TO CONCRETE

GT-646 = .06504 HRS PER SECTION

GT-647

INSTALL UP TO 1" DIAMETER FLEXIBLE NON-METALLIC TUBING (ENT CONDUIT) THROUGH TYPICAL 2" RAFTERS OR STUDS INCLUDING DRILLING HOLE AND FEEDING CONDUIT PER UP TO TEN FOOT SECTION OF CONDUIT

NO WORK UNIT DESCRIPTION

- 1 INSTALL CONNECTOR TO BOX
- 2 CUT CONDUIT TO LENGTH
- 3 DRILL HOLE WITH POWER DRILL AND FEED CONDUIT THROUGH HOLE IN RAFTER OR STUD
- 4 ASSEMBLE CONDUIT TO CONNECTOR WITH ADHESIVE

GT-647 = .22835 HRS PER SECTION

CT -648

INSTALL 480Y/277 VOLT PANEL BOARD TO WOOD SURFACE

NO WORK UNIT DESCRIPTION

- 1 UNPACK PANEL BOARD ASSEMBLY INCLUDING BOX, COVERS, BUS PANEL AND RELATED HARDWARE . LAYOUT, DRILL AND MOUNT BOX TO WALL
- 3 OPEN LARGE KNOCKOUT IN BOX FOR SUPPLY LINES
- 4 INSTALL COUPLING TO BOX FOR SUPPLY LINES
- 5 CUT , SEPARATE, FORM AND ALIGN FOUR SUPPLY LINES
- 6 MOUNT MAIN 150 AMP SWITCH TO PANEL
- 7 OPEN KNOCKOUT WITH PULLER FOR EACH CIRCUIT
- 8 CUT , SEPARATE, FORM, ALIGN AND CONNECT WIRES FOR EACH CIRCUIT.
- 9 INSTALL BOLT-ON CIRCUIT BREAKERS TO PANEL
- 10 MOUNT BUS PANEL TO BOARD, POSITION ON STUDS AND TIGHTEN (2 MEN)
- 11 HOOK UP FOUR SUPPLY LINES
- 12 INSTALL BUS PANEL AND PANEL BOARD COVERS
- 13 TURN ON POWER TO PANEL TO TEST AND TURN OFF
- 14 CHECK BREAKER OPERATION

GT-648 = .63190 HRS PER PANEL + .24808 HRS PER CIRCUIT

GT-649

INSTALL 480Y/277 VOLT PANEL BOARD TO CONCRETE SURFACE

NO WORK UNIT DESCRIPTION

- 1 UNPACK PANEL BOARD ASSEMBLY INCLUDING BOX, COVERS, BUS PANEL AND RELATED HARDWARE
- 2 LAYOUT, DRILL AND MOUNT BOX TO CONCRETE WALL WITH SCREW AND WALL ANCHORS
- 3 OPEN LARGE KNOCKOUT IN BOX FOR SUPPLY LINES
- 4 INSTALL COUPLING TO BOX FOR SUPPLY LINES
- 5 CUT, SEPARATE, FORM AND ALIGN FOUR SUPPLY LINES
- 6 MOUNT MAIN 150 AMP SWITCH TO PANEL
- 7 OPEN KNOCKOUT WITH PULLER FOR EACH CIRCUIT
- 8 CUT, SEPARATE, FORM, ALIGN AND CONNECT WIRES FOR EACH CIRCUIT.
- 9 INSTALL BOLT-ON CIRCUIT BREAKERS TO PANEL
- 10 MOUNT BUS PANEL TO BOARD, POSITION ON STUDS AND TIGHTEN (2 MEN)
- 11 HOOK UP FOUR SUPPLY LINES
- 12 INSTALL BUS PANEL AND PANEL BOARD COVERS
- 13 TURN ON POWER TO PANEL TO TEST AND TURN OFF
- 14 CHECK BREAKER OPERATION

GT-649 = .79885 HRS PER PANEL
 + .24808 HRS PER CIRCUIT

GT-650

INSTALL 480Y/277 VOLT PANEL BOARD TO STEEL COLUMN INCLUDING FABRICATE MOUNTING BRACKETS

NO WORK UNIT DESCRIPTION

- 1 UNPACK PANEL BOARD ASSEMBLY INCLUDING BOX, COVERS, BUS PANEL AND RELATED HARDWARE
- 2 FABRICATE BRACKETS AND MOUNT BOX TO WALL WITH BRACKETS, NUTS AND BOLTS
- 3 OPEN LARGE KNOCKOUT IN BOX FOR SUPPLY LINES
- 4 INSTALL COUPLING TO BOX FOR SUPPLY LINES
- 5 CUT, SEPARATE, FORM AND ALIGN SUPPLY LINES
- 6 MOUNT MAIN 150 AMP SWITCH TO PANEL
- 7 OPEN KNOCKOUT WITH PULLER FOR EACH CIRCUIT
- 8 CUT, SEPARATE, FORM, ALIGN AND CONNECT WIRES FOR EACH CIRCUIT.
- 9 INSTALL BOLT-ON CIRCUIT BREAKERS TO PANEL
- 10 MOUNT PANEL TO BOARD, POSITION ON STUDS AND TIGHTEN (2 MEN)
- 11 HOOK UP FOUR SUPPLY LINES
- 12 INSTALL BUS PANEL AND PANEL BOARD COVERS
- 13 TURN ON POWER TO PANEL TO TEST AND TURN OFF
- 14 CHECK BREAKER OPERATION

GT-650 = 1.13908 HRS PER PANEL
 + .24808 HRS PER CIRCUIT

GT-651

REPLACE BUS BARS AND BARRIER BOARDS IN SUBSTATION

NO WORK UNIT DESCRIPTION

- 1 UNLOCK GATE TO SUBSTATION AND LOCK AFTER JOB IS COMPLETED
- 2 OPEN AND LATER CLOSE CABINET DOOR
- 3 SECURE MAIN POWER AND TURN ON AFTER WORK
- 4 GET AND ASIDE KNIFE
- 5 CUT AND REMOVE TAPE FROM BARS
- 6 REMOVE 3/4" BOLTS FROM BUS BARS WITH RATCHET AND SOCKET
- 7 DISCONNECT GROUNDS TO BARRIER BOARD
- 8 REMOVE BUS BAR
- 9 REMOVE INSULATING SLEEVE FROM BUS BAR
- 10 INSTALL INSULATING SLEEVE TO BUS BAR
- 11 REMOVE BARRIER BOARD BOLTS
- 12 REMOVE BARRIER BOARD
- 13 INSTALL BARRIER BOARD
- 14 INSTALL BOLTS TO BARRIER BOARD
- 15 INSTALL BUS BARS
- 16 INSTALL BOLTS TO BUS BARS
- 17 REINSTALL GROUNDS
- 18 INSTALL WATERPROOF BARRIER TAPE
- 19 INSTALL INSULATING TAPE OVER BARRIER TAPE
- 20 CHECK OUTPUT AFTER MAINTENANCE

GT-651 = .05311 HRS PER JOB
 + 1.02425 HRS PER BUS BAR
 + .07071 HRS PER BOARD

GT-652

PULL LARGE CABLE WITH MOTORIZED CABLE PULLER TYPICAL GREENLEE MODEL 6001 1.5 HP PULLER WITH 6500 LBS MAX PULLING FORCE. STUDY MADE OF PULLING SIX (6) 300 MCM CABLES PLUS ONE (1) #2 GROUND IN 3" CONDUIT.

NO WORK UNIT DESCRIPTION

- 1 SET UP PULLER FOR CABLE PULL AND PACK AWAY AFTER USE
- 2 PREPARE FISHTAPE FOR USE AND PUT AWAY AFTER USE
- 3 FEED FISHTAPE INTO CONDUIT - PER FOOT
- 4 ATTACH ROPE TO FISHTAPE
- 5 PULL ROPE THROUGH CONDUIT - PER FOOT
- 6 SET UP MOBILE CRANE HOIST WITH PULLEY TO ASSIST CABLE PULL
- 7 LAYOUT AND CUT CABLE TO LENGTH FOR PULL
- 8 ADDITIONAL WALK TO LAYOUT CABLE OVER 25 FEET
- 9 ATTACH CABLE TO ROPE FOR PULLING
- 10 PULL CABLE WITH PULLER - PER FOOT

GT-652 = .38517 HRS PER JOB
 + .00351 HRS PER FOOT
 + .07242 HRS PER CABLE

GT-653

OPERATIONAL TEST OF FIRE ALARM SYSTEM
(TWO PERSONS REQUIRED)
ZONE TIME = EACH ALARM ZONE OR FLOOR OF BUILDING

NO WORK UNIT DESCRIPTION
== =====

- 1 ENTER BUILDING TO TEST ALARM AND LATER EXIT
- 2 NOTIFY BUILDING SECURITY OF ALARM TEST AND LATER
END OF TEST. *SHOULD BE PREVIOUSLY SCHEDULED
- 3 NOTIFY FIRE DEPARTMENT BY RADIO OF TEST
- 4 WALK TO/FROM MASTER PANEL
- 5 INSPECT , CLEAN AND VACUUM MASTER PANEL
- 6 ACTIVATE ALARM AND CHECK SIGNAL TO MASTER PANEL
FOR ONE ALARM ZONE (TWO PERSONS REQUIRED)
- 7 SHUT OFF MASTER SWITCH AND TURN ON
- 8 TURN SWITCH OFF/ON TO TEST ZONE INDICATORS
- 9 CALL FIRE DEPARTMENT TO NOTIFY OF END OF TEST

GT-653 = .06415 HRS PER TEST
+ .05016 HRS PER ZONE

INDEX

Access, for wire; cut through partition with hole saw	25
Airfield Lighting; adjust VASI lights	27
Alarm, Fire; Install wires to pole; operational test	5
Amplifier, 10 watt and 50 watt; repair and check	5
Amplifier, Paging; repair and check	5
Antenna Rod, Mobile; replace	5
Antenna Rod, Mobile; replace base	5
Appliance, 220V cable to unit	3
Appliance, 220V range; disconnect and connect	3
Bank, Transformer, 3-15 KVA; install or remove	61
Barrier Boards; replace	62
Board, Panel, circuit breaker or fusible; remove	21
Board, Panel, circuit breaker type; install, connect and test	19
Board, Panel, fusible type; install, connect and test	20
Board, Panel; install and connect circuits in	19-20
Box, Junction; connect wire with connectors or solder	23
Box, Junction; open knockout with hydraulic punch	19
Box, Junction; remove wire from conduit between boxes	17
Box, Outlet; install seal off fittings at box	13
30X, Telephone; remove and/or install	5
Bus Bars; replace	62
Button, press-to-talk paging amplifier; repair and check	5
Cable, direct burial; install	9
Cable; disconnect and remove from stapled installation	9
Cable, from box to 220V Appliance; install, or remove	3
Cable; install through partition interior	9
Cable; install to framing or exposed wood	9
Cable, metallic sheathed or non-metallic; remove	9
Cable; pull with motor	11
Cable; splice lead sheathed or polyethylene jacketed	11
Cable, underground; install	9
Cartridge Fuses; replace with cut-outs	41
Ceiling Fan or Light; install in suspended ceiling	7
Ceiling, Suspended; install fan or other component	7
Circuit Breaker Switch Gear; install, connect and test	53
Circuit Breaker Type Panel Board; install, connect and test	19
Circuit Breakers; remove	21
Circuits, Fusible Switchblock; install and connect in panel	20
Circuits; install and connect in existing panel board	19-20
Clevis Insulators; install or remove on pole	41
Clock, Time; disconnect, remove, overhaul and reinstall	7
Communications Pole; remove and reinstall two conductor pole	49
Conductors, overhead; remove and/or install	43
Conductors, overhead; reposition	45
Conduit Rack (Kendorf); install from ceiling for conduit	17
Conduit, (EMT); install and remove	13
Conduit, (ENT); install	13
Conduit, Flexible Metallic; install or remove	13

Conduit, PVC; install in trench	13
Conduit, Rigid; install or remove	15
Conduit, Rigid; remove with wire	15
Conduit; remove wire from between two boxes	15
Connectors; connect wire in boxes with	23
Cord, Drop; assemble to overhead trolley duct	17
Cord, in Floor Lamp; relate	29
Detector, Smoke; install	5
Dictaphone; repair and check	5
Drill Access Hole for Wire with Hole Saw	25
Drop Cord; assemble to overhead trolley duct	17
Duct, Trolley with Drop Cord; assemble and install	17
Electronic Equipment, General; repair and check	7
Emergency Light Fixture; install	27
EMT (Electrical metallic tubing) Conduit; install and remove	13
ENT (Electrical non-metallic tubing) conduit; install	13
Exhaust Fan; install	7
Explosion Proof Junction; install seal off fittings at	25
Explosion Proof Receptacle; install	25
Explosion Proof, Water/Dust tight Switch Gear	53
Fan, Ceiling; Install in Suspended Ceiling	7
Fan, Exhaust; Install	7
Fire Alarm; Install wires to pole	5
Fire Alarm; Operational Test	5
Fittings, Seal Off; install	13
Fixture, Emergency Light; remove, install and replace	27
Fixture, Exterior Lighting; replace	27
Fixture, Fluorescent; disassemble, remove and install	30-31
Fixture, Incandescent Light; remove, install and replace	33
Flexible Metallic Conduit; install or remove	13
Floor Lamp Cord; replace	29
Fluorescent Fixture; disassemble and remove or install	30-31
Fluorescent Lighting, Tube Type; replace parts	29
Fluorescent Lighting; relamping indoors	31
Free Standing Poles; remove, install and reinstall	47-49
Fusible Safety Switches; install, connect and test	54
Fusible Switchblock Circuits; install and connect in panel	20
Fusible Type Panel Board; install, connect and test	20
Generators, Emergency; Preventative Maintenance	7
Ground Rod; install	37
Ground Systems; Preventative Maintenance	37
Guys, Anchor; remove and install from non-free standing pole	51
Heater, Overhead, 220V; connect or disconnect	3
High Voltage Pins or Insulators; install or remove	41
Incandescent Fixture; disassemble and remove;	33
Incandescent Lighting; relamp	33
Indoor Lighting; relamp	31, 33
Induction Motor; disconnect, overhaul and connect	47
Industrial Line Circuit Breakers	58-59
Insulators; remove and install and reposition conductor	41
Intercom; repair and check	5
Intermediate Pole; remove and reinstall	49
Jumper Connections; install or remove	41
Jumper Wires; install	41
Kendorf; install rack for conduit	17
Knockout Plug in Underfloor Raceway; locate and remove	17

Lead Sheathed Cable; splice	11
Light Fixture (Troffer); install in suspended ceiling	30
Light Fixtures; remove old and install new parts	29
Lighting, Fluorescent; replace with fluorescent	30-31
Lighting, Fluorescent; replace with incandescent	30-31
Lights, Airfield; adjust	27
Line and Pole Work; miscellaneous items	39
Line Poles; straighten pole	39
Load Utility Poles on Trailer	39
Low Voltage Pin Communication Wire; install or remove	41
Manholes; ventilate and pump out	35
Metallic Sheathed Cable; install	9
Metallic Sheathed or Non-Metallic Cable; remove	9
Mobile Antenna Rod; replace	5
Motor, to 1/4 HP; disconnect, overhaul and connect	7
Motor, 1/4 - 5 HP; disconnect, overhaul and connect	7
Motor, Induction; disconnect, overhaul and connect	7
Motor; install Phase Protection	7
Movie Projector; repair and check	5
Non-free Standing Pole; remove and install guys, stub pole, etc.	51
Non-fusible Safety Switches; install, connect and test	57
Non-metallic Sheathed Cable; install	9
Octal Tube Socket; replace	7
Outlet Extension; move outlet out to new wall	25
Outside Lighting; relamp	27
Overhead Conductors; remove and/or install	43
Overhead Electrical Distribution Systems Wiring	43-45
Overhead Heater, 220V; connect or disconnect	3
Paging Amplifier; repair and check	5
Panel Board, Circuit Breaker or Fusible; remove	21
Panel Board, Circuit Breaker Type; install, connect and test	19-20
Panel Board, Fusible Type; install, connect and test	20
Panel Board; install and connect circuits in	19-20
Panel Board; install, connect and test	19-20
Partition, Interior; install cable through	9
Phase Protection; install on motor	7
Phone Box; remove and/or install	5
Plug, Knockout, in underfloor Raceway; locate and remove	17
Pole Steps; install or remove.	39
Pole Time; use belt and gaffe to climb	39
Pole Time; use bucket truck	39
Pole, Communication; remove and reinstall two conductors	49
Pole, Free Standing; remove, install and reinstall	48
Pole, Intermediate; remove and reinstall	49
Pole, Line; straighten pole	39
Pole, Non-free Standing; remove and reinstall g	51
Pole, Telegraph Type; install or remove	49
Pole, Terminal; remove and reinstall	49
Pole, Utility; cut off tip	39
Polyethylene Jacketed Cable; splice	11
Preventative Maintenance Inspection of Grounding Systems	37
Preventative Maintenance Inspection of Site Transformer	61
Preventative Maintenance Inspection of Emergency Generators	7
Primary Switches; open or close four switches	41
Pump Out Manhole	35
Push Brace; remove and reinstall from non-free standing pole	51

PVC Conduit; heat, bend and cut to length	13
PVC Conduit; install in trench	13
Raceway, Underfloor; locate and remove knockout plug	17
Rack, 3-Spool Secondary; remove and/or install to pole	45
Rack, 5-Spool Secondary; remove and/or install to pole	45
Rack, Kendorf; install from ceiling for conduit run	17
Receptacle, Explosion Proof; install	25
Receptacle; install or remove	25
Recessed Ceiling; install light fixture (Troffer)	30
Relamping; incandescent and outside lighting	33
Relamping; inside and fluorescent lighting	31-33
Restricted Area, crawlspace, attic, etc.; install conduit and boxes	13-17
Rigid Conduit with Wire; remove	15
Rigid Conduit; install or remove	15
Safety Switches, Fusible; install, connect and test	54
Safety Switches, Non-fusible; install, connect and test	57
Safety Switches, Switch Gear; install, connect and test	54-57
Safety Switches; remove	55, 57
Seal Off Fittings; install	13
Secondary Rack, 3-Spool; remove and/or install to pole	25
Secondary Rack, 5-Spool; remove and/or install to pole	41
Ship-to-Shore Telephone; install or remove	5
Single-Phase Transformer; disconnect and remove wiring	61
Smoke Detector; install in ceiling	5
Speaker, PA System; install	5
Speaker, PA System; repair and check	
Splice Cable; Lead or Polyethylene Jacketed	23
Splice Cable; change straight splice to "Y" splice	23
Staple Metallic or Non-Metallic Sheathed Cable to Wood Surface	9
Stem Mounted Fixture, Fluorescent; install and replace	30
Stem Mounted Fixture, Incandescent; install and replace	33
Storage Yard; enter secured area for material	39
Street Lights; remove and install	77
Stub Pole; install on non-free standing pole	51
Stub Pole; remove and reinstall to non-free standing pole	51
Substation; repair	62
Surface Mounted Fixture, Fluorescent; install and replace	31
Surface Mounted Fixture, Incandescent; install and replace	33
Switch Gear, Circuit Breaker Type; install, connect and test	53
Switch Gear, Circuit Breakers and Safety Switches; remove	55
Switch Gear, Explosion Proof Water and Dust Tight; install	53
Switch Gear, Safety Switches; install, connect and test	53-57
Switch; install Seal Off Fittings at	13
Switches and Receptacles; install or remove	25
Switches; open or close four primary switches	41
Tape Recorder; repair and check	5
Telegraph Type Pole; install or remove	49
Telephone, Phone Boxes; remove and/or install	5
Telephone, Ship-to-Shore; install or remove	5
Temporary Electrical Service; install and later remove	37
Terminal Pole; remove and reinstall	49
Thermostat; install on wood or concrete or replace	3
Time Clock; disconnect, remove, overhaul and install	7
Transformer, 15 KVA; install wiring to transformer	61
Transformer, 3-50 KVA; install, remove or replace	61
Transformer, single-phase; disconnect and remove wiring	61

Transformer, Site; Preventative Maintenance of	61
Transformers; install and replace	61
Troffer Light Fixture; install in suspended ceiling	30
Trolley Duct and Drop Cord; assemble and install	17
Tube Socket, Octal; replace	7
Turntable; repair and check	5
Underfloor Raceway Knockout Plug; locate and remove	17
Utility Poles; load on trailer	39
Ventilate Manhole	35
Visual Approach Slope Indicator (VASI) Lights; adjust	27
Wire Connection; change existing straight splice to "Y" splice	23
Wire with Rigid Conduit; remove	15
Wire; connect (solder) in boxes	23
Wire; connect with connectors in boxes	23
Wire; pull in from box to box to install	25
Wire, remove from conduit between two boxes	17
Wireway (with Wire); remove	15
Wireway; install on wood or concrete	15
Wiring, Overhead Electrical Distribution Systems	43-45

EPS FEEDBACK SHEET

Submitted by _____ Installation _____
Date _____ Address _____
Phone _____ ATTN/Code _____
_____ City, State, Zip _____

The following questions are designed to assist the NAVFAC Industrial Engineering Center (NIEC) in its continuing effort to improve the overall quality of standard data presented in the EPS handbooks. You may phone us at (804) 445-2297 commercial or 565-2297 autovoon.

1. List frequently recurring tasks which are not presently covered. Please attach any drawings or added descriptions:
2. Are these tasks scheduled at your facility? If so, may the NIEC video tape the task being performed?

CRAFT HANDBOOK	TASK DESCRIPTION	VIDEO TAPE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

3. List task for which, in your judgment, craft time is inaccurate - indicate whether time is too high or too low:

CRAFT HANDBOOK	TASK DESCRIPTION	HIGH/LOW
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

4. General comments (tasks presently covered which are never used, format of data presentation, PE News letter, etc.):

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EPS FEEUBACK SHEET

Submitted by _____ Installation _____
Date _____ Address _____
Phone _____ ATTN/Code _____
_____ City, State, Zip _____

The following questions are designed to assist the NAVFAC Industrial Engineering Center (NIEC) in its continuing effort to improve the overall quality of standard data presented in the EPS handbooks. You may phone us at (804) 445-2297 commercial or 565-2297 autovon.

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_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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CRAFT HANDBOOK	TASK DESCRIPTION	HIGH/LOW
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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